



# Recent Advances in Science in Western Australia



## Earth Sciences

**Akai J. Chiba A. Konishi H. Komatsu M. Matsubara S.** New occurrences of non-classical pyribolites formed during ocean-floor and regional metamorphism - estimated Pt conditions of formation. *European Journal of Mineralogy.* 9(6):1237-1255, 1997.

**Allibone AH. Windh J. Etheridge MA. Burton D. Anderson G. Edwards PW. Miller A. Graves C. Fanning CM. Wysoczanski R.** Timing relationships and structural controls on the location of Au-Cu mineralization at the Boddington gold mine, Western Australia. *Economic Geology & the Bulletin of the Society of Economic Geologists.* 93(3):245-270, 1998.

**Amelin YV. Neymark LA.** Lead isotope geochemistry of paleoproterozoic layered intrusions in the eastern baltic shield - inferences about magma sources and U-Th-Pb fractionation in the crust-mantle system. *Geochimica et Cosmochimica Acta.* 62(3):493-505, 1998.

**Amelin YV.** Geochronology of the Jack Hills detrital zircons by precise U-Pb isotope dilution analysis of crystal fragments. *Chemical Geology.* 146(1-2):25-38, 1998.

**Anand RR. Phang C. Wildman JE. Lintern MJ.** Genesis of some calcretes in the southern Yilgarn Craton, Western Australia - implications for mineral exploration - Reply. *Australian Journal of Earth Sciences.* 45(1):179-182, 1998.

**Andersen JCO. Rasmussen H. Nielsen TFD. Ronsbo JG.** The triple group and the platinova gold and palladium reefs in the Skaergaard Intrusion - stratigraphic and petrographic relations. *Economic Geology & the Bulletin of the Society of Economic Geologists.* 93(4):488-509, 1998.

**Anderson G C. Fillery I R P. Dolling P J. Asseng S.** Nitrogen and water flows under pasture-wheat and lupin-wheat rotations in deep sands in Western Australia: 1. Nitrogen fixation in legumes, net N mineralisation, and utilisation of soil-derived nitrogen. *Australian Journal of Agricultural Research* 49(3). 1998. 329-343.

**Anderson G C. Fillery I R P. Dunin F X. Dolling P J. Asseng S.** Nitrogen and water flows under pasture-wheat and lupin-wheat rotations in deep sands in Western Australia: 2. Drainage and nitrate leaching. *Australian Journal of Agricultural Research* 49(3). 1998. 345-361.

**Ardill J. Flint S. Chong G. Wilke H.** Sequence stratigraphy of the mesozoic Domeyko Basin, northern Chile. *Journal of the Geological Society.* 155(Part 1):71-88, 1998.

**Arndt N. Ginibre C. Chauvel C. Albarede F. Cheadle M. Herzberg C. Jenner G. Lahaye Y.** Were komatiites wet? *Geology.* 26(8):739-742, 1998.

**Barley ME. Krapez B. Groves DI. Kerrich R.** The Late Archaean bonanza - metallogenic and environmental consequences of the interaction between mantle plumes, lithospheric tectonics and global cyclicity. *Precambrian Research.* 91(1-2):65-90, 1998.

**Barley ME. Loader SE. McNaughton NJ.** 3430 to 3417 Ma calc-alkaline volcanism in the McPhee Dome and Kelly Belt, and growth of the Eastern Pilbara Craton. *Precambrian Research.* 88(1-4 Special Issue SI):3-23, 1998.

**Barnes SJ.** Chromite in komatiites, 1 - Magmatic controls on crystallization and composition. *Journal of Petrology.* 39(10):1689-1720, 1998.

**Beaumont V. Robert F.** Nitrogen isotopic composition of organic matter from Precambrian cherts - new keys for nitrogen cycle evolution [French]. *Bulletin de la Societe Geologique de France.* 169(2):211-220, 1998.

**Beltran J. Gerritse RG. Hernandez F.** Effect of flow rate on the adsorption and desorption of glyphosate, simazine and atrazine in columns of sandy soils. *European Journal of Soil Science.* 49(1):149-156, 1998.

**Benker E. Davis G B. Barry D A.** Estimating the retardation coefficient of trichloroethene for a sand aquifer low in sediment organic carbon: A comparison of methods. *Journal of Contaminant Hydrology* 30(1-2). 1998. 157-178.

**Bernstein S. Kelemen PB. Brooks CK.** Depleted spinel harzburgite xenoliths in Tertiary dykes from East Greenland - restites from high degree melting. *Earth & Planetary Science Letters.* 154(1-4):221-235, 1998.

**Bevan AWR. Bland PA. Jull AJT.** Meteorite flux on the Nullarbor Region, Australia. In: *Meteorites: Flux with time and impact effects* (eds MM Grady, R Hutchison, GJH McCall & DA Rothery). Geographical Society, London, Special Publications 140:59-73.

**Bierlein FP. Arne DC. Broome JMN. Ramsay WRH.** Metatholeites and interflow sediments from the Cambrian Heathcote greenstone belt, Australia - sources for gold mineralization in Victoria. *Economic Geology & the Bulletin of the Society of Economic Geologists.* 93(1):84-101, 1998.

**Bierlein FP. McNaughton NJ.** PB isotope fingerprinting of mesothermal gold deposits from central Victoria, Australia - implications for ore genesis. *Mineralium Deposita.* 33(6):633-638, 1998.

**Bolland M D A. Allen D G.** Spatial variation of soil test phosphorus and potassium, oxalate-extractable iron and aluminum, phosphorus-retention index, and organic carbon content in soils of Western Australia. *Communications in Soil Science & Plant Analysis* 29(3-4). 1998. 381-392.

**Bevan AWR. Downes PJ.** Alexandrite chrysoberyl from Dowerin, Western Australia: revisited. *Australian Gemmologist* 19:460-463, 1997.

**Bevan AWR. Curiosity Swamp.** *Landscape* 13: 50-53, 1998.

**Bevan AWR. Bland PA. Jull AJT.** The flux of meteorites on the Nullarbor Region, Australia. In: *Meteorites: Flux with Time and Impact Effects* (eds Grady MM, Hutchison, R, McCall, GJH. & Rothery, DA), Geological Society Special Publications 140: 59-73, 1998.

**Bolland MDA. Gilkes RJ.** The relative effectiveness of superphosphate and rock phosphate for soils where vertical and lateral leaching of phosphate occurs. *Nutrient Cycling in Agroecosystems.* 51(2):139-153, 1998.

**Bolland MDA. Lewis DC. Gilkes RJ. Hamilton LJ.** Review of Australian phosphate rock research. *Australian Journal of Experimental Agriculture.* 37(8):845-859, 1997.

**Bornhorst TJ. Thorpe RI. Johnson RC.** Lead isotope study of veins in the Archean Ishpeming greenstone belt,

Michigan. Economic Geology & the Bulletin of the Society of Economic Geologists. 93(1):102-107, 1998.

**Broadbridge LW. Hanstrum BN.** The relationship between tropical cyclones near Western Australia and the southern oscillation index. Australian Meteorological Magazine. 47(3):183-189, 1998.

**Buick R. Rasmussen B. Krapez B.** Archean oil - evidence for extensive hydrocarbon generation and migration 2.5-3.5 ga. AAPG Bulletin-American Association of Petroleum Geologists. 82(1):50-69, 1998.

**Burrow CJ. Long JA. Turner S.** Lower Devonian microvertebrates from the Point Hibbs Formation, Tasmania. Alcheringa 22: 9-20, 1988.

**Callaghan J.** The South Pacific and southeast Indian Ocean tropical cyclone season 1995-96. Australian Meteorological Magazine. 46(4):325-339, 1997.

**Campbell IH. Compston DM. Richards JP. Johnson JP. Kent AJR.** Review of the application of isotopic studies to the genesis of Cu-mineralisation at Olympic Dam and mineralisation at Porgera, the Tennant Creek District and Yilgarn Craton [Review]. Australian Journal of Earth Sciences. 45(2):201-218, 1998.

**Cassidy KF. Groves DI. McNaughton NJ.** Late-Archean granitoid-hosted lode-gold deposits, Yilgarn Craton, Western Australia - deposit characteristics, crustal architecture and implications for ore genesis. Ore Geology Reviews. 13(1-5):65-102, 1998.

**Chardon D. Choukroune P. Jayananda M.** Sinking of the Dharwar Basin (south India) - implications for Archaean tectonics. Precambrian Research. 91(1-2):15-39, 1998.

**Collins WJ. Vankranendonk MJ. Teyssier C.** Partial convective overturn of Archaean crust in the East Pilbara Craton, Western Australia - driving mechanisms and tectonic implications. Journal of Structural Geology. 20(9-10):1405-1424, 1998.

**Craig RS.** A new crinoid brachiopod from the Eocene of southwest Australia. Records of the Western Australia Museum 18:311-315, 1997.

**Cruchshank ARI. Long JA.** A new species of pliosaurid reptile from the Early Cretaceous Birdrong Sandstone of Western Australia. Records of the Western Australia Museum 18:263-276, 1998.

**Dalstra HJ. Bloem EJM. Ridley JR. Groves DI.** Diapirism synchronous with regional deformation and gold mineralisation, a new concept for granitoid emplacement in the Southern Cross Province, Western Australia. Geologie en Mijnbouw. 76(4):321-338, 1998.

**Di HJ. Aylmore LAG. Kookana RS.** Degradation rates of eight pesticides in surface and subsurface soils under laboratory and field conditions. Soil Science. 163(5):404-411, 1998.

**Downes PJ. Bevan JC. Bevan AWR.** Minerals of the Whim Creek Mine, Western Australia. Australian Journal of Mineralogy, 4:13-29, 1998.

**Dunn JG. Kagi RI. Phillips DN.** Developing professional skills in a third-year undergraduate chemistry course offered in Western Australia. Journal of Chemical Education. 75(10):1313-1316, 1998.

**Edgecombe GD.** Devonian terrestrial arthropods from Gondwana. Nature. 394(6689):172-175, 1998.

**Eilu P. Mikucki EJ.** Alteration and primary geochemical dispersion associated with the Bulletin lode-gold deposit, Wiluna, Western Australia. Journal of Geochemical Exploration. 63(2):73-103, 1998.

**Eriksson KA. Simpson EL.** Controls on spatial and temporal distribution of Precambrian eolianites. Sedimentary Geology. 120(1-4):275-294, 1998.

**Ernst RE. Buchan KL.** Layered mafic intrusions - a model for their feeder systems and relationship with giant dyke swarms and mantle plume centres. Transactions of the Geological Society of South Africa. 100(4):319-334, 1997.

**Feltenstein A.** An analysis of the implications for the gold mining industry of alternative tax policies - a regional disaggregated model for Australia. Economic Record. 73(223):305-313, 1997.

**Findlay D. BOUDINAGE** - a key to an organizing principle for the formation of ore deposits. Economic Geology & the Bulletin of the Society of Economic Geologists. 93(5):671-682, 1998.

**Franzmann PD. Zappia LR. Patterson BM. Rayner JL. Davis GB.** Mineralisation of low concentrations of organic compounds and microbial biomass in surface and vadose zone soils from the Swan Coastal Plain, Western Australia. Australian Journal of Soil Research. 36(6):921-939, 1998.

**Frost CD. Frost BR. Chamberlain KR. Hulsebosch TP.** The Late Archean history of the Wyoming Province as recorded by granitic magmatism in the Wind River Range, Wyoming. Precambrian Research. 89(3-4):145-173, 1998.

**Gerritsen RG. Wallbrink PJ. Murray AS.** Accumulation of phosphorus and heavy metals in the Swan-Canning Estuary, Western Australia. Estuarine Coastal & Shelf Science. 47(2):165-179, 1998.

**Gorain BK. Napiermann TJ. Franzidis JP. Manlapig EV.** Studies on impeller type, impeller speed and air flow rate in an industrial scale flotation cell - Part 5 - Validation of K-S-B relationship and effect of froth depth. Minerals Engineering. 11(7):615-626, 1998.

**Gould SF.** Proteoid root mats bind surface materials in Hawkesbury Sandstone biomantles. Australian Journal of Soil Research. 36(6):1019-1031, 1998.

**Greeley R. Fagents SA. Harris RS. Kadel SD. Williams DA. Guest JE.** Erosion by flowing lava - field evidence [Review]. Journal of Geophysical Research-Solid Earth. 103(B11):27325-27345, 1998.

**Grey K. Corkeron M.** Late Neoproterozoic stromatolites in glaciogenic successions of the Kimberley Region, Western Australia - evidence for a younger Marinoan glaciation. Precambrian Research. 92(1):65-87, 1998.

**Groves DI. Goldfarb RJ. Gebremariam M. Hagemann SG. Robert F.** Orogenic gold deposits - a proposed classification in the context of their crustal distribution and relationship to other gold deposit types. Ore Geology Reviews. 13(1-5):7-27, 1998.

**Hagemann SG. Brown PE. Ridley J. Stern P. Fournelle J.** Ore petrology, chemistry, and timing of electrum in the Archean hypozonal Transvaal lode gold deposit, Western Australia. Economic Geology & the Bulletin of the Society of Economic Geologists. 93(3):271-291, 1998.

**Hamilton NTM. Collins LB.** Placer formation in a Holocene barrier system, southwestern Australia. Journal of Coastal Research. 14(1):240-255, 1998.

**Hartley BM. Wall B. Munslowdavies L. Toussaint LF. Hirschberg KJ. Terry KW. Shepherd M.** The establishment of a radioactive waste disposal facility in Western Australia for low level waste. Applied Radiation & Isotopes. 49(3):259-264, 1998.

**Hatton CJ.** The superocean cycle. Transactions of the Geological Society of South Africa. 100(4):301-310, 1997.

**Heaman LM.** Global mafic magmatism at 2.5 ga - remnants

of an ancient large igneous province - Reply. *Geology*. 26(1):94-96, 1998.

**Helli RM. Smith RK.** A monsoon depression over northwestern Australia Part 1 - Case study. *Australian Meteorological Magazine*. 47(1):21-40, 1998.

**Hill SM. Taylor G. McQueen KG.** Genesis of some calcretes in the southern Yilgarn Craton, Western Australia - implications for mineral exploration - Discussion. *Australian Journal of Earth Sciences*. 45(1):177-178, 1998.

**Hobbs RJ. Mooney HA.** Broadening the extinction debate - population deletions and additions in California and Western Australia [Review]. *Conservation Biology*. 12(2):271-283, 1998.

**Hodgkin EP. Hesp P.** Estuaries to salt lakes - Holocene transformation of the estuarine ecosystems of southwestern Australia. *Marine & Freshwater Research*. 49(3):183-201, 1998.

**Hutchinson DE. Toussaint LF.** Near-surface disposal of concentrated norm wastes. *Applied Radiation & Isotopes*. 49(3):265-271, 1998.

**Jahn BM. GruG. Capdevila R. Cornichet J. Nemchin A. Pidgeon R. Rudnik VA.** Archean crustal evolution of the Aldan Shield, Siberia - geochemical and isotopic constraints. *Precambrian Research*. 91(3-4):333-363, 1998.

**Joer HA. Randolph MF. Gunasena U.** Experimental modeling of the shaft capacity of grouted driven piles. *Geotechnical Testing Journal*. 21(3):159-168, 1998.

**Johnston CD. Rayner JL. Patterson BM. Davis GB.** Volatilisation and biodegradation during air sparging of dissolved btex-contaminated groundwater. *Journal of Contaminant Hydrology*. 33(3-4):377-404, 1998.

**Jones DA. Beard G.** Verification of Australian monthly district rainfall totals using high resolution gridded analyses. *Australian Meteorological Magazine*. 47(1):41-54, 1998.

**Kendrick GW. McNamara KJ. Brimmell K.** A guide to the fossils of the Roe Plains. WA Museum, Perth, 1997.

**Kent AJR. McCuaig TC.** Disturbed Ar<sup>40</sup>-Ar<sup>39</sup> systematics in hydrothermal biotite and hornblende at the Scotia gold mine, Western Australia - evidence for argon loss associated with post-mineralisation fluid movement. *Geochimica et Cosmochimica Acta*. 61(21):4655-4669, 1997.

**Kent RW. Kelley SP. Pringle MS.** Mineralogy and Ar<sup>40</sup>/Ar<sup>39</sup> geochronology of orangeites (group ii kimberlites) from the Damodar Valley, eastern India. *Mineralogical Magazine*. 62(3):313-323, 1998.

**Kiyokawa S. Taira A.** The Cleaverville group in the west Pilbara coastal granitoid-greenstone terrain of Western Australia - an example of a mid-Archaean immature oceanic island-arc succession. *Precambrian Research*. 88(1-4 Special Issue SI):109-142, 1998.

**Klein HP.** The search for life on Mars: What we learned from Viking. *Journal of Geophysical Research-Planets*. 103(E12):28463-28466, 1998.

**Kookana RS. Baskaran S. Naidu R.** Pesticide fate and behaviour in Australian soils in relation to contamination and management of soil and water - A review [Review]. *Australian Journal of Soil Research*. 36(5):715-764, 1998.

**Krapez B.** Sequence-stratigraphic concepts applied to the identification of depositional basins and global tectonic cycles - Reply. *Australian Journal of Earth Sciences*. 44(6):881-886, 1997.

**Kurup GR. Hamilton P. Patterson JC.** Modelling the effect of seasonal flow variations on the position of salt wedge in a microtidal estuary. *Estuarine Coastal & Shelf Science*. 47(2):191-208, 1998.

**Lambert DD. Foster JG. Frick LR. Hoatson DM. Purvis AC.** Application of the Re-Os isotopic system to the study of Precambrian magmatic sulfide deposits of Western Australia [Review]. *Australian Journal of Earth Sciences*. 45(2):265-284, 1998.

**Larson MS. Stone WE. Morris WA. Crocket JH.** Magnetic signature of magnetite-enriched rocks hosting platinum-group element mineralization within the Archean Boston Creek Flow, Ontario. *Geophysics*. 63(2):440-445, 1998.

**Libby WG. Delaeter JR.** Biotite Rb-Sr age evidence for early Palaeozoic tectonism along the cratonic margin in southwestern Australia. *Australian Journal of Earth Sciences*. 45(4):623-632, 1998.

**Long JA.** Dinosaurs of Australia and New Zealand and other animals of the Mesozoic Era. University of NSW Press, Sydney, 1998.

**Long JA.** Ptyctodontid fishes from the Late Devonian Gogo Formation, Western Australia, with a revision of the European genus *Ctenurella* Ørvig 1960. *Geodiversitas (Paris)* 19 (3): 515-556, 1997.

**Long JA. Cruichshank ARI** Further records of plesiosaurian reptiles from the Jurassic and Cretaceous Periods of Western Australia. *Records of the Western Australian Museum* 19: 47-55, 1998.

**Long JA. McNamara KJ.** Heterochrony In The Dinosaur Encyclopedia (ed P Currie), Academic Press, New York, 311-317, 1997.

**Long JA. Molnar RE.** A new Jurassic theropod dinosaur from Western Australia. *Records of the Western Australian Museum* 19: 221-229, 1998.

**Long JA. Vickers-Rich P. Hirsch K. Bray E. Tuniz C.** The Cervantes egg: an early Malagasy tourist to Australia *Records of the Western Australian Museum* 19: 39-46, 1998.

**Maier WD. Barnes SJ. Dewaal SA.** Exploration for magmatic Ni-Cu-pge sulphide deposits - a review of recent advances in the use of geochemical tools, and their application to some South African ores [Review]. *South African Journal of Geology*. 101(3):237-253, 1998.

**Mamet B.** A late Devonian microfossil with dasyclad algae affinities from northwestern Australia. *Alcheringa*. 22(1-2):21-28, 1998.

**Mann AW. Birrell RD. Mann AT. Humphreys DB. Perdix JL.** Application of the mobile metal ion technique to routine geochemical exploration. *Journal of Geochemical Exploration*. 61(1-3):87-102, 1998.

**Mann AW.** Oxidised gold deposits - relationships between oxidation and relative position of the water-table. *Australian Journal of Earth Sciences*. 45(1):97-108, 1998.

**Martin DM. Clendenin CW. Krapez B. McNaughton NJ.** Tectonic and geochronological constraints on late Archaean and Palaeoproterozoic stratigraphic correlation within and between the Kaapvaal and Pilbara Cratons. *Journal of the Geological Society*. 155(Part 2):311-322, 1998.

**Martin DM. Li ZX. Nemchin AA. Powell CM.** A pre-2.2 ga age for giant hematite ores of the Hamersley Province, Australia. *Economic Geology & the Bulletin of the Society of Economic Geologists*. 93(7):1084-1090, 1998.

**Masselink G. Hegge BJ. Pattiarchi CB.** Beach cusp morphodynamics. *Earth Surface Processes & Landforms*. 22(12):1139, 1997.

**McComb AJ. Qiu S. Lukatelich RJ. McAuliffe TF.** Spatial and temporal heterogeneity of sediment phosphorus in the Peel-Harvey Estuarine system. *Estuarine Coastal & Shelf Science*. 47(5):561-577, 1998.

**McCuaig TC. Kerrich R.** P-T-T-deformation-fluid

characteristics of lode gold deposits - evidence from alteration systematics [Review]. *Ore Geology Reviews*. 12(6):381-453, 1998.

**McGowran B. Li QY. Cann J. Padley D. McKirdy DM. Shafik S.** Biogeographic impact of the Leeuwin Current in southern Australia since the late middle Eocene [Review]. *Palaeogeography Palaeoclimatology Palaeoecology*. 136(1-4):19-40, 1997.

**McKissock I. Gilkes RJ. Harper RJ. Carter DJ.** Relationships of water repellency to soil properties for different spatial scales of study. *Australian Journal of Soil Research*. 36(3):495-507, 1998.

**McNamara KJ. Long JA.** The Evolution Revolution. John Wiley & Sons, Chichester & New York, 1998.

**McNamara KJ.** Evolution's Missing Link. *Australasian Science incorporating Search* 19(1): 30-32, 1998.

**McNamara KJ.** First records of holasteroid, neolampadoid and aeropsid echinoids from Australian waters. In: *Echinoderms* (eds R Mooi & M Telford), Balkema, Rotterdam, 734, 1998.

**Mihut D. Muller RD.** Volcanic margin formation and Mesozoic rift propagators in the Cuvier abyssal plain off Western Australia. *Journal of Geophysical Research-Solid Earth*. 103(B11):27135-27149, 1998.

**Mikhalsky EV. Laiba AA. Surina NP.** The Lambert Province of alkaline-basic and alkaline-ultrabasic rocks in east Antarctica - geochemical and genetic characteristics of igneous complexes. *Petrology*. 6(5):466-479, 1998.

**Mikucki EJ.** Hydrothermal transport and depositional processes in Archean lode-gold systems - a review. *Ore Geology Reviews*. 13(1-5):307-321, 1998 Apr.

**Morrow R. Birol F.** Variability in the southeast Indian Ocean from altimetry - forcing mechanisms for the Leeuwin Current. *Journal of Geophysical Research-Oceans*. 103(C9):18529-18544, 1998.

**Murphy DV. Fillery IRP. Sparling GP.** Seasonal fluctuations in gross N mineralisation, ammonium consumption, and microbial biomass in a Western Australian soil under different land uses. *Australian Journal of Agricultural Research* 49(3). 523-535, 1998.

**Murphy DV. Sparling GP. Fillery IRP. McNeill AM. Braunberger P.** Mineralisation of soil organic nitrogen and microbial respiration after simulated summer rainfall events in an agricultural soil. *Australian Journal of Soil Research* 36(2). 231-246, 1998.

**Murphy DV. Sparling GP. Fillery IRP.** Stratification of microbial biomass C and N and gross N mineralisation with soil depth in two contrasting Western Australian agricultural soils. *Australian Journal of Soil Research* 36(1):45-55, 1998.

**Murray AS. Wintle AG.** Factors controlling the shape of the OSL decay curve in quartz. *Radiation Measurements*. 29(1):65-79, 1998.

**Murtugudde R. Busalacchi AJ. Beauchamp J.** Seasonal-to-interannual effects of the Indonesian throughflow on the tropical Indo-Pacific Basin. *Journal of Geophysical Research-Oceans*. 103(C10):21425-21441, 1998.

**Nagler TF. Kramers JD.** Nd isotopic evolution of the upper mantle during the Precambrian - models, data and the uncertainty of both [Review]. *Precambrian Research*. 91(3-4):233-252, 1998.

**Napier RW. Guise PG. Rex DC.** Ar<sup>40</sup>/Ar<sup>39</sup> constraints on the timing and history of amphibolite facies gold mineralisation in the Southern Cross area, Western Australia. *Australian Journal of Earth Sciences*. 45(2):285-296, 1998.

**Nelson DR.** Granite-greenstone crust formation on the Archean earth - a consequence of two superimposed processes. *Earth & Planetary Science Letters*. 158(3-4):109-119, 1998.

**Nemchin AA. Pidgeon RT.** Precise conventional and shrimp baddeleyite U-Pb age for the Binneringie Dyke, near Narrogin, Western Australia. *Australian Journal of Earth Sciences*. 45(5):673-675, 1998.

**Nguyen QD. Boger DV.** Application of rheology to solving tailings disposal problems. *International Journal of Mineral Processing*. 54(3-4):217-233, 1998.

**Nijman W. Debruijne KH. Valkering ME.** Growth fault control of early Archean cherts, barite mounds and chert-barite veins, North Pole dome, eastern Pilbara, Western Australia. *Precambrian Research*. 88(1-4 Special Issue SI):25-52, 1998.

**Nijman W. Willigers BJA. Krikke A.** Tensile and compressive growth structures - relationships between sedimentation, deformation and granite intrusion in the Archean Coppin Gap greenstone belt, eastern Pilbara, Western Australia. *Precambrian Research*. 88(1-4 Special Issue SI):83-108, 1998.

**Obrien PE. Lindsay JF. Knauer K. Sexton MJ.** Sequence stratigraphy of a sandstone-rich Permian glacial succession, Fitzroy Trough, Canning Basin, Western Australia. *Australian Journal of Earth Sciences*. 45(4):533-545, 1998.

**Occhipinti SA. Sheppard S. Nelson DR. Myers JS. Tyler IM.** Syntectonic granite in the southern margin of the Palaeoproterozoic Capricorn Orogen, Western Australia. *Australian Journal of Earth Sciences*. 45(4):509-512, 1998.

**Occhipinti SA. Swager CP. Pirajno F.** Structural-metamorphic evolution of the Palaeoproterozoic Bryah and Padbury Groups during the Capricorn Orogeny, Western Australia. *Precambrian Research*. 90(3-4):141-158, 1998.

**Passchier CW.** The late Archean and early Proterozoic - what happened next. *Geologie en Mijnbouw*. 76(4):357-360, 1998.

**Pattiaratchi C. Hegge B. Gould J. Eliot I.** Impact of sea-breeze activity on nearshore and foreshore processes in southwestern Australia. *Continental Shelf Research*. 17(13):1539-1560, 1997.

**Phillips GN. Vearncombe JR. Eshuys E.** Yandal greenstone belt, Western Australia - 12 million ounces of gold in the 1990s. *Mineralium Deposita*. 33(3):310-316, 1998.

**Pickett EJ. Newsome JC.** *Eucalyptus* (Myrtaceae) pollen and its potential role in investigations of Holocene environments in southwestern Australia. *Review of Palaeobotany & Palynology*. 98(3-4):187-205, 1997.

**Pickford M.** Onland Tertiary marine strata in southwestern Africa - eustasy, local tectonics and epeirogenesis in a passive continental margin setting. *South African Journal of Science*. 94(1):5-8, 1998.

**Pidgeon RT. Wilde SA.** The interpretation of complex zircon U-Pb systems in Archean granitoids and gneisses from the Jack Hills, Narryer gneiss terrane, Western Australia. *Precambrian Research*. 91(3-4):309-332, 1998.

**Pirajno F. Glikson A.** Shoemaker impact structure Western Australia. *Celestial Mechanics & Dynamical Astronomy*. 69(1-2):25-30, 1997.

**Pirajno F. Occhipinti SA. Swager CP.** Geology and tectonic evolution of the Palaeoproterozoic Bryah, Padbury and Yerrida basins (formerly Glengarry basin), Western Australia - implications for the history of the south-

central Capricorn orogen. *Precambrian Research.* 90(3-4):119-140, 1998.

**Polat A. Kerrich R. Wyman DA.** The late Archean Schreiber-Hemlo and White River dayohessarah greenstone belts, Superior province - collages of oceanic plateaus, oceanic arcs, and subduction-accretion complexes [Review]. *Tectonophysics.* 289(4):295-326, 1998.

**Puchtel IS. Hofmann AW. Mezger K. Jochum KP. Shchipansky AA. Samsonov AV.** Oceanic platemodel for continental crustal growth in the Archaean, a case study from the Kostomuksha greenstone belt, nw Baltic Shield. *Earth & Planetary Science Letters.* 155(1-2):57-74, 1998.

**Racki G.** Frasnian-Famennian biotic crisis - undervalued tectonic control [Review]. *Palaeogeography Palaeoclimatology Palaeoecology.* 141(3-4):177-198, 1998.

**Read JL.** Are geckos useful bioindicators of air pollution. *Oecologia.* 114(2):180-187, 1998.

**Rice A.** A model for pge enrichment due to the splitting of freezing magma chambers by suspended crystal loads. *Exploration & Mining Geology.* 6(2):129-137, 1997.

**Ridgway KR. Godfrey JS.** Seasonal cycle of the east Australian current. *Journal of Geophysical Research-Oceans.* 102(C10):22921-22936, 1997.

**Robinson JS. Sivapalan M.** Temporal scales and hydrological regimes - implications for flood frequency scaling. *Water Resources Research.* 33(12):2981-2999, 1997.

**Rye R. Holland HD.** Paleosols and the evolution of atmospheric oxygen - a critical review [Review]. *American Journal of Science.* 298(8):621-672, 1998

**Salama RB.** Geomorphology, geology and palaeohydrology of the broad alluvial valleys of the Salt River system, Western Australia. *Australian Journal of Earth Sciences.* 44(6):751-765, 1997

**Samadi A. Gilkes RJ.** Forms of phosphorus in virgin and fertilised calcareous soils of Western Australia. *Australian Journal of Soil Research.* 36(4):585-601, 1998.

**Sankaran AV.** Incorporation and diffusion of lead in zircons. *Current Science.* 74(10):823-825, 1998.

**Schieber J.** Possible indicators of microbial mat deposits in shales and sandstones - examples from the mid-Proterozoic belt supergroup, Montana, USA. *Sedimentary Geology.* 120(1-4):105-124, 1998.

**Semkiwa P. Kalkreuth W. Utting J. Mayagilo F. Mpanju F. Hagemann H.** The geology, petrology, palynology and geochemistry of Permian coal basins in Tanzania - 1 - Namwele-Mkomolo, Muze and Galula coalfields. *International Journal of Coal Geology.* 36(1-2):63-110, 1998.

**Simmonson BM. Davies D. Wallace M. Reeves S. Hassler SW.** Iridium anomaly but no shocked quartz from Late Archean microkrystite layer - oceanic impact ejecta. *Geology.* 26(3):195-198, 1998.

**Slattery WJ. Edwards DG. Bell LC. Coventry DR. Helyar KR.** Soil acidification and the carbon cycle in a cropping soil of north-eastern Victoria. *Australian Journal of Soil Research.* 36(2):273-290, 1998.

**Som SK. Joshi R. Roy PK. Mukherjee MM.** Morphotectonic evolution of the laterite profiles over Sukinda ultramafics, Jajpur District, Orissa. *Journal of the Geological Society of India.* 52(4):449-456, 1998.

**Squire RJ. Cas RAF. Clout JMF. Behets R.** Volcanology of the Archaean Lunnon basalt and its relevance to nickel sulfide-bearing trough structures at Kambalda, Western Australia [Review]. *Australian Journal of Earth Sciences.* 45(5):695-715, 1998

**Stein HJ. Sundblad K. Markey RJ. Morgan JW. Motuza G. Re-Os ages for Archean molybdenite and pyrite, Kuittila-Kivisuo, Finland and Proterozoic molybdenite, Kabeliai, Lithuania - testing the chronometer in a metamorphic and metasomatic setting [Review]. *Mineralium Deposita.* 33(4):329-345, 1998.**

**Stephenson MH.** Preliminary correlation of palynological assemblages from Oman with the *Granulatisporites confluens* Oppel zone of the Grant Formation (Lower Permian), Canning Basin, Western Australia. *Journal of African Earth Sciences.* 26(4):521-526, 1998.

**Stirling CH. Esat TM. Lambeck K. Mcculloch MT.** Timing and duration of the last interglacial - evidence for a restricted interval of widespread coral reef growth. *Earth & Planetary Science Letters.* 160(3-4):745-762, 1998.

**Stuwe K.** Tectonic constraints on the timing relationships of metamorphism, fluid production and gold-bearing quartz vein emplacement. *Ore Geology Reviews.* 13(1-5):219-228, 1998.

**Sunilkumar TS. Rao NK. Palrecha MM. Parthasarathy R. Shah VL. Sinha KK.** Mineralogical and geochemical characteristics of the basal quartz-pebble conglomerate of Dhanjori Group, Singhbhum Craton, India and their significance. *Journal of the Geological Society of India.* 51(6):761-776, 1998.

**Suppiah R. Hennessy KJ.** Trends in total rainfall, heavy rain events and number of dry days in Australia, 1910-1990. *International Journal of Climatology.* 18(10):1141-1164, 1998.

**Taniguchi M. Williamson DR. Peck AJ.** Estimations of surface temperature and subsurface heat flux following forest removal in the south-west of Western Australia. *Hydrological Processes.* 12(13-14):2205-2216, 1998.

**Tarnocai CA. Hattori K. Stubens TC.** Metamorphosed Archean epithermal Au-As-Sb-Zn-(Hg) vein mineralization at the Campbell Mine, northwestern Ontario - a discussion. *Economic Geology & the Bulletin of the Society of Economic Geologists.* 93(5):683-685, 1998.

**Tompkins LA. Eisenlohr B. Groves DI. Raetz M.** Temporal changes in mineralization style at the Cadjebut Mississippi Valley-type deposit, Lennard Shelf, WA. *Economic Geology & the Bulletin of the Society of Economic Geologists.* 92(7-8):843-862, 1997.

**Trendall AF. Nelson DR. Delaeter JR. Hassler SW.** Precise zircon U-Pb ages from the Marra Mamba iron formation and Wittenoom formation, Hamersley Group, Western Australia. *Australian Journal of Earth Sciences.* 45(1):137-142, 1998.

**Twidale CR.** Antiquity of landforms - an extremely unlikely concept vindicated [Review]. *Australian Journal of Earth Sciences.* 45(5):657-668, 1998.

**Twidale CR.** Persistent and ancient rivers - some Australian examples. *Physical Geography.* 18(4):291-317, 1997.

**Twidale CR. Bourne JA.** The use of duricrusts and topographic relationships in geomorphological correlation - conclusions based in Australian experience. *Catena.* 33(2):105-122, 1998.

**Vanhaften WM. White SH.** Evidence for multiphase deformation in the Archean basal Warrawoona Group in the Marble Bar area, east Pilbara, Western Australia. *Precambrian Research.* 88(1-4 Special Issue SI):53-66, 1998.

**Vankranendonk MJ. Collins WJ.** Timing and tectonic significance of late Archaean, sinistral strike-slip deformation in the central Pilbara structural corridor, Pilbara Craton, Western Australia. *Precambrian Research.* 88(1-4 Special Issue SI):207-232, 1998.

**Vearncombe JR.** Shear zones, fault networks, and Archean gold. *Geology*. 26(9):855-858, 1998.

**Vearncombe S. Vearncombe JR. Barley ME.** Fault and stratigraphic controls on volcanogenic massive sulphide deposits in the Strelley belt, Pilbara Craton, Western Australia. *Precambrian Research*. 88(1-4 Special Issue SI):67-82, 1998.

**Walter MJ.** Melting of garnet peridotite and the origin of komatiite and depleted lithosphere [Review]. *Journal of Petrology*. 39(1):29-60, 1998.

**Wang Q. Schiotte L. Campbell IH.** Geochronology of supracrustal rocks from the Golden Grove area, Murchison Province, Yilgarn Craton, Western Australia. *Australian Journal of Earth Sciences*. 45(4):571-577, 1998.

**Ward PR. Dunin FX. Micin SF. Williamson DR.** Evaluating drainage responses in duplex soils in a mediterranean environment. *Australian Journal of Soil Research*. 36(3):509-523, 1998.

**Weaver DM. Reed AEG.** Patterns of nutrient status and fertiliser practice on soils of the south coast of Western Australia. *Agriculture Ecosystems & Environment* 67(1):37-53, 1998.

**White SH. Zegers TE. Vanhaften WM. Kloppenburg A. Wijbrans J.** Tectonic evolution of the eastern Pilbara, Australia. *Geologie en Mijnbouw*. 76(4):343-347, 1998.

**Williams DA. Kerr RC. Lesher CM.** Emplacement and erosion by Archean komatiite lava flows at Kambalda - revisited [Review]. *Journal of Geophysical Research-Solid Earth*. 103(B11):27533-27549, 1998

**Williams PJ.** A metamorphosed, stratabound-epigenetic origin for a gruneritic Archean gold deposit, Barberton, South Africa [Review]. *Ore Geology Reviews*. 12(3):135-151, 1997.

**Winn RD. Steinmetz JC.** Upper Paleozoic strata of the Chaco-Parana Basin, Argentina, and the great Gondwana glaciation. *Journal of South American Earth Sciences*. 11(2):153-168, 1998.

**Wintle AG. Murray AS.** Towards the development of a preheat procedure for OSL dating of quartz. *Radiation Measurements*. 29(1):81-94, 1998.

**Witt WK. Vanderhorst F.** Diversity within a unified model for Archean gold mineralization in the Yilgarn Craton of Western Australia - An overview of the late-orogenic, structurally-controlled gold deposits. *Ore Geology Reviews*. 13(1-5):29-64, 1998.

**Woodhead JD. Hergt JM. Simonson BM.** Isotopic dating of an Archean bolide impact horizon, Hamersley Basin, Western Australia. *Geology*. 26(1):47-50, 1998.

**Yeats CJ. Groves DI.** The Archean Mount Gibson gold deposits, Yilgarn Craton, Western Australia - Products of combined synvolcanic and syntectonic alteration and mineralisation. *Ore Geology Reviews*. 13(1-5):103-129, 1998.

**Zegers TE. Dekeijzer M. Passchier CW. White SH.** The Mulgandinnah shear zone - an Archean crustal scale strike-slip zone, eastern Pilbara, Western Australia. *Precambrian Research*. 88(1-4 Special Issue SI):233-247, 1998.

**Zegers TE. Wijbrans JR. Nelson DR. White SH.** Ar<sup>40</sup>/Ar<sup>39</sup> and U-Pb dating in the eastern Pilbara, Australia - temporal constraints on structural and metamorphic events between 3.5 and 2.8 ga. *Geologie en Mijnbouw*. 76(4):353-355, 1998.

**Zheng HB. Wyrwoll KH. Li ZX. Powell CM.** Onset of aridity in southern Western Australia - a preliminary palaeomagnetic appraisal. *Global & Planetary Change*. 18(3-4):175-187, 1998.

**Zhou MF. Sun M. Keays RR. Kerrich RW.** Controls on platinum-group elemental distributions of podiform chromitites - a case study of high-Cr and high-Al chromitites from Chinese orogenic belts. *Geochimica et Cosmochimica Acta*. 62(4):677-688, 1998.

## Life Sciences

**Abbott I.** Conservation of the forest red-tailed black cockatoo, a hollow-dependent species, in the eucalypt forests of Western Australia. *Forest Ecology & Management*. 109(1-3):175-185, 1998.

**Abensperg-Traun M. Steven D.** Latitudinal gradients in the species richness of Australian termites (Isoptera). *Australian Journal of Ecology*. 22(4):471-476, 1997.

**Addison JT.** Lobster stock assessment - report from a workshop 1. *Marine & Freshwater Research*. 48(8):941-944, 1997.

**Aggangan NS. Dell B. Malajczuk N.** Effects of chromium and nickel on growth of the ectomycorrhizal fungus *Pisolithus* and formation of ectomycorrhizas on *Eucalyptus urophylla* Blake, S.T. *Geoderma*. 84(1-3):15-27, 1998.

**Allen GR.** A review of the marine catfish genus *Paraplotosus* (Plotosidae) with the description of a new species from north-western Australia [Review]. *Raffles Bulletin of Zoology*. 46(1):123-134, 1998.

**Allsopp PG.** Probability of describing an Australian scarab beetle - influence of body size and distribution. *Journal of Biogeography*. 24(6):717-724, 1997.

**Amaoka K. Arai M.** Redescription of a rare bothid, *Asterorhombus bleekeri* (Macleay), and description of a new species of *Asterorhombus* from northwestern Australia (Teleostei, Pleuronectiformes). *Ichthyological Research*. 45(3):249-257, 1998.

**Anderson GC. Fillery IRP. Dolling PJ. Asseng S.** Nitrogen and water flows under pasture-wheat and lupin-wheat rotations in deep sands in Western Australia: 1. Nitrogen fixation in legumes, net N mineralisation, and utilisation of soil-derived nitrogen. *Australian Journal of Agricultural Research* 49(3):329-343, 1998.

**Anderson GC. Fillery IRP. Dunin FX. Dolling PJ. Asseng S.** Nitrogen and water flows under pasture-wheat and lupin-wheat rotations in deep sands in Western Australia: 2. Drainage and nitrate leaching. *Australian Journal of Agricultural Research* 49(3):345-361, 1998.

**Anderson WK. Shackley BJ. Sawkins D.** Grain yield and quality - does there have to be a trade-off (reprinted from wheat - prospects for global improvement, 1998). *Euphytica*. 100(1-3):183-188, 1998.

**Araki S. Shiozawa S. Washitani I.** An experimental device for studying seed responses to naturally fluctuating temperature of surface soil under a constant water table. *Functional Ecology*. 12(3):492-499, 1998.

**Arnold G W. Weeldenberg J W. Leone J.** Herbicide control of exotic annual plant species in *Acacia acuminata-Eucalyptus loxophleba* woodland in south-western Australia and effects on native ground flora. *Plant Protection Quarterly* 13(1). 1998. 39-43.

**Arnold TN. Oldham CE.** Trace-element contamination of a shallow wetland in Western Australia. *Marine & Freshwater Research*. 48(6):531-539, 1997.

**Arthur H. Bell K. Cooper DW.** Plasma protein polymorphisms in the tammar wallaby, *Macropus eugenii*. *Australian Journal of Zoology*. 46(2):193-199, 1998.

**Asseng S. Fillery I R P. Anderson G C. Dolling P J. Keating B A.** Use of the APSIM wheat model to predict yield,

drainage, and  $\text{NO}_3^-$  leaching for a deep sand. Australian Journal of Agricultural Research 49(3): 363-377, 1998.

**Asseng S. Keating BA. Fillery IRP. Gregory PJ. Bowden JW. Turner NC. Palta JA. Abrecht DG.** Performance of the apsim-wheat model in Western Australia. Field Crops Research. 57(2):163-179, 1998.

**Austin AD. Gibson GAP. Harvey MS.** Synopsis of Australian *Calymmochilus* Masi (Hymenoptera: Eupelmidae), description of a new Western Australian species associated with a pseudoscorpion, and review of pseudoscorpion parasites. Journal of Natural History 32(3):329-350, 1998.

**Ayukai T. Miller D.** Phytoplankton biomass, production and grazing mortality in Exmouth Gulf, a shallow embayment on the arid, tropical coast of Western Australia. Journal of Experimental Marine Biology & Ecology. 225(2):239-251, 1998.

**Baker CS. Florezgonzalez L. Abernethy B. Rosenbaum HC. Slade RX. Capella J. Bannister JL.** Mitochondrial dna variation and maternal gene flow among humpback whales of the southern hemisphere. Marine Mammal Science. 14(4):721-737, 1998.

**Baker EA. Collette BB.** Mackerel from the northern Indian Ocean and the Red Sea are *Scomber australasicus*, not *Scomber japonicus*. Ichthyological Research 45(1): 29-33, 1998.

**Barker RM.** The *Hakea pedunculata* group of species (Proteaceae) and a new subspecies of *Hakea stenophylla* from Western Australia. Nuytsia 12(1): 1-8, 1998.

**Barraclough DA. Ohara JE.** *Obscuromyia*, a remarkable new genus of the endemic Australian tribe Myiotrixini (Diptera, Tachinidae, Tachininae). Invertebrate Taxonomy. 12(5):825-832, 1998.

**Bartsch I.** *Arhodeoporus* (Acari, Halacaridae) from Rottnest Island, description of three new species. Acarologia. 38(3):265-274, 1997.

**Baskin JM. Baskin CC.** Greenhouse and laboratory studies on the ecological life cycle of *Dalea foliosa* (Fabaceae), a federal endangered species. Natural Areas Journal. 18(1):54-62, 1998.

**Battaglia M. Sands P.** Modelling site productivity of *Eucalyptus globulus* in response to climatic and site factors. Australian Journal of Plant Physiology. 24(6):831-850, 1997.

**Batteen ML. Butler CL.** Modeling studies of the Leeuwin Current off Western and Southern Australia. Journal of Physical Oceanography. 28(11):2199-2221, 1998.

**Batteen ML. Huang MJ.** Effect of salinity on density in the Leeuwin Current system. Journal of Geophysical Research-Oceans. 103(C11):24693-24721, 1998.

**Beaumont V. Robert F.** Nitrogen isotopic composition of organic matter from Precambrian cherts - new keys for nitrogen cycle evolution [French]. Bulletin de la Societe Geologique de France. 169(2):211-220, 1998.

**Bell DT. Williams DS.** Tolerance of thermal shock in seeds. Australian Journal of Botany. 46(2):221-233, 1998.

**Belles X.** A new subgenus and two new species of *Sphaericus* (Coleoptera, Ptinidae) from Western Australia. European Journal of Entomology. 95(2):263-268, 1998.

**Beltran J. Gerritse RG. Hernandez F.** Effect of flow rate on the adsorption and desorption of glyphosate, simazine and atrazine in columns of sandy soils. European Journal of Soil Science. 49(1):149-156, 1998.

**Benker E. Davis G B. Barry D A.** Estimating the retardation coefficient of trichloroethene for a sand aquifer low in sediment organic carbon: A comparison of methods. Journal of Contaminant Hydrology 30(1-2): 157-178, 1998.

**Bevan AWR.** Curiosity Swamp. Landscape 13: 50-53, 1998.

**Bidwell JR. Wheeler KW. Burridge TR.** Toxicant effects on the zoospore stage of the marine macroalga *Ecklonia radiata* (Phaeophyta, Laminariales). Marine Ecology-Progress Series. 163:259-265, 1998.

**Birch CJ. Rickert KG. Hammer GL.** Modelling leaf production and crop development in maize (*Zea mays* L.) After tassel initiation under diverse conditions of temperature and photoperiod. Field Crops Research. 58(2):81-95, 1998.

**Bolland MDA. Allen DG.** Spatial variation of soil test phosphorus and potassium, oxalate-extractable iron and aluminum, phosphorus-retention index, and organic carbon content in soils of Western Australia. Communications in Soil Science & Plant Analysis 29(3-4):381-392, 1998.

**Bolland MDA. Gilkes RJ.** The relative effectiveness of superphosphate and rock phosphate for soils where vertical and lateral leaching of phosphate occurs. Nutrient Cycling in Agroecosystems. 51(2):139-153, 1998.

**Bougger NL. Young AM.** Hygrophoraceae of Western Australia (VOL 63, PG 25, 1997). Mycotaxon. 65:525, 1997.

**Bowman DMJS.** Observations on the demography of the Australian boab (*Adansonia gibbosa*) in the north-west of the Northern Territory, Australia. Australian Journal of Botany. 45(5):893-904, 1997.

**Bowman DMJS.** Tansley Review No. 101 - The impact of Aboriginal landscape burning on the Australian biota [Review]. New Phytologist. 140(3):385-410, 1998.

**Bray RA. Cribb TH.** Lepocreadiidae (Digenea) of Australian coastal fishes: new species of *Opechona* Looss, 1907, *Lepotrema* Ozaki, 1932 and *Bianium* Stunkard, 1930 and comments on other species reported for the first time or poorly known in Australian waters. Systematic Parasitology. 41(2):123-148, 1998.

**Bray RA. Cribb TH. Littlewood DTJ.** A phylogenetic study of *Lepidapedoides yamaguti*, 1970 (Digenea) with a key and descriptions of two new species from Western Australia. Systematic Parasitology. 39(3):183-197, 1998.

**Brennan JP. Fox PN.** Impact of CIMMYT varieties on the genetic diversity of wheat in Australia, 1973-1993. Australian Journal of Agricultural Research 49(2): 175-178, 1998.

**Brennan RF. Crowhurst AM. Webb MG.** The growth of yellow bells (*Geleznowia verrucosa*) seedlings in response to additions of nitrogen, potassium and phosphorus fertiliser. Australian Journal of Experimental Agriculture. 38(4):385-390, 1998.

**Brightwell RF. Crawford GPM. Cale JB. Pedler PJ. Bittles AH.** Ageing and the haematological profiles of an Australian community. Annals of Human Biology 25(1): 1-10, 1998.

**Broadbridge LW. Hanstrum BN.** The relationship between tropical cyclones near Western Australia and the southern oscillation index. Australian Meteorological Magazine. 47(3):183-189, 1998.

**Brooker B.** Evidence of long laying intervals by the thick-billed Grasswren *Anisognathus textilis*. Emu 98(1): 82-83, 1998.

**Brooker MG.** Fire and birds in a Western Australian heathland. Emu. 98(Part 4):276-287, 1998.

**Buatois LA. Mangano MG. Genise JF. Taylor TN.** The ichnologic record of the continental invertebrate invasion - evolutionary trends in environmental expansion, ecospace utilization, and behavioral complexity [Review]. Palaios. 13(3):217-240, 1998.

**Burke CM.** Knott B. Homeostatic interactions between the benthic microbial communities and the waters of a hypersaline lake, Lake Hayward, Western Australia. *Marine & Freshwater Research*. 48(7):623-631, 1997.

**Burrow CJ.** Long JA. Turner S. Lower Devonian microvertebrates from the Point Hibbs Formation, Tasmania. *Alcheringa* 22: 9-20, 1988.

**Callaghan J.** The South Pacific and southeast Indian Ocean tropical cyclone season 1995-96. *Australian Meteorological Magazine*. 46(4):325-339, 1997

**Cambridge ML.** Hocking PJ. Annual primary production and nutrient dynamics of the seagrasses *Posidonia sinuosa* and *Posidonia australis* in south-western Australia. *Aquatic Botany*. 59(3-4):277-295, 1997.

**Catterall CP.** Kingston MB. Park K. Sewell S. Deforestation, urbanisation and seasonality - interacting effects on a regional bird assemblage. *Biological Conservation*. 84(1):65-81, 1998.

**Chiovitti A.** Kraft GT. Bacic A. Craik DJ. Munro SLA. Liao ML. Carrageenans from Australian representatives of the family Cystocloniaceae (Gigartinales, Rhodophyta), with description of *Calliblepharis celatospora* sp. nov., and transfer of *Austroclonium* to the family Areschougiaceae. *Journal of Phycology*. 34(3):515-535, 1998.

**Clarke CJ.** Mauger GW. Bell RW. Hobbs RJ. Computer modelling of the effect of revegetation strategies on salinity in the western wheatbelt of Western Australia: 1. The impact of revegetation strategies. *Australian Journal of Soil Research* 36(1):109-129, 1998.

**Clarke CJ.** Mauger GW. Bell RW. Hobbs RJ. Computer modelling of the effect of revegetation strategies on salinity in the western wheatbelt of Western Australia. 2. The interaction between revegetation strategies and major fault zones. *Australian Journal of Soil Research* 36(1):131-142, 1998.

**Clegg SM.** Hale P. Moritz C. Molecular population genetics of the red kangaroo (*Macropus rufus*) - mtDNA variation. *Molecular Ecology*. 7(6):679-686, 1998 Jun.

**Colman JG.** A review of the biology and ecology of the whale shark [Review]. *Journal of Fish Biology*. 51(6):1219-1234, 1997.

**Cooper ML.** Geographic variation in size and shape in the southern brown bandicoot, *Isoodon obesulus* (Peramelidae, Marsupialia), in Western Australia. *Australian Journal of Zoology*. 46(2):145-152, 1998.

**Corrigan VK.** Hurst PL. Boulton G. Sensory characteristics and consumer acceptability of pink lady and other late-season apple cultivars. *New Zealand Journal of Crop & Horticultural Science*. 25(4):375-383, 1997

**Cowling RM.** Lamont BB. On the nature of Gondwanan species flocks - diversity of Proteaceae in mediterranean south-western Australia and South Africa. *Australian Journal of Botany*. 46(3-4):335-355, 1998.

**Craig RS.** A new cranioid brachiopod from the Eocene of southwest Australia. *Records of the Western Australia Museum* 18:311-315, 1997.

**Cruchshank ARI.** Long JA. A new species of pliosaurid reptile from the Early Cretaceous Birdrong Sandstone of Western Australia. *Records of the Western Australia Museum* 18:263-276, 1998.

**Davies M.** Watson GF. Developmental biology of *Uperoleia talpa* Tyler, Davies & Martin, 1981 (Anura: Myobatrachidae). *Transactions of the Royal Society of South Australia*. 122(Part 3-4):153-157, 1998.

**Davis D.** Whale shark tourism in Ningaloo Marine Park, Australia. *Anthrozoos*. 11(1):5-11, 1998.

**Davison EM.** McKay AG. *Pythium* spp. associated with cavity spot of carrots in Western Australia. *Australasian Plant Pathology*. 27(3):163-168, 1998.

**Dawes CJ.** Andorfer J. Rose C. Uranowski C. Ehringer N. Regrowth of the seagrass *Thalassia testudinum* into propeller scars. *Aquatic Botany*. 59(1-2):139-155, 1997.

**Dench A.** Pidgin Ngarluma - an indigenous contact language in north western Australia. *Journal of Pidgin & Creole Languages*. 13(1):1-61, 1998.

**Depiazzi LJ.** Roberts WD. Hawkins CD. Palmer MA. Pitman DR. McQuade NC. Jelinek PD. Devereux DJ. Rippon RJ. Severity and persistence of footrot in Merino sheep experimentally infected with a protease thermostable strain of *Dichelobacter nodosus* at five sites. *Australian Veterinary Journal* 76(1):32-38, 1998.

**Di HJ.** Aylmore LAG. Kookana RS. Degradation rates of eight pesticides in surface and subsurface soils under laboratory and field conditions. *Soil Science*. 163(5):404-411, 1998.

**Djordjevic SP.** Eamens GJ. Ha H. Walker MJ. Chin JC. Demonstration that Australian *Pasteurella multocida* isolates from sporadic outbreaks of porcine pneumonia are non-toxigenic (toxa(-)) and display heterogeneous dna restriction endonuclease profiles compared with toxigenic isolates from herds with progressive atrophic rhinitis. *Journal of Medical Microbiology*. 47(8):679-688, 1998.

**Dunn JG.** Kagi RI. Phillips DN. Developing professional skills in a third-year undergraduate chemistry course offered in Western Australia. *Journal of Chemical Education*. 75(10):1313-1316, 1998.

**Dunstan WA.** Dell B. Malajczuk N. The diversity of ectomycorrhizal fungi associated with introduced *Pinus* spp in the southern hemisphere, with particular reference to Western Australia. *Mycorrhiza*. 8(2):71-79, 1998.

**Elliott NG.** Lowry PS. Grewe PM. Innes BH. Yearsley GK. Ward RD. Genetic evidence for depth-and spatially separated stocks of the deep-water spiny oreo in Australasian waters. *Journal of Fish Biology* 52(4):796-816, 1998.

**Ellis TM.** Norris RT. Martin PAJ. Casey RH. Hawkins CD. Evidence for freedom from Johnes-disease in cattle and goats in Western Australia. *Australian Veterinary Journal*. 76(9):630-633, 1998.

**Eltarably KA.** Hardy GESJ. Sivasithamparam K. Effects of host age on development of cavity spot disease of carrots caused by *Pythium coloratum* in Western Australia. *Australian Journal of Botany*. 45(4):727-734, 1997.

**Feizabadi MM.** Robertson ID. Hope A. Cousins DV. Hampson DJ. Differentiation of Australian isolates of *Mycobacterium paratuberculosis* using pulsed field gel electrophoresis. *Australian Veterinary Journal*. 75(12):887-889, 1997.

**Filippich LJ.** McDonnell PA. Munoz E. Upcroft JA. Giardia infection in budgerigars. *Australian Veterinary Journal*. 76(4):246-249, 1998.

**Fisher K.** Irradiation effects in air and in nitrogen on mediterranean fruit fly (Diptera, Tephritidae) pupae in Western Australia. *Journal of Economic Entomology*. 90(6):1609-1614, 1997.

**Fleming PJS.** Allen LR. Berghout MJ. Meek PD. Pavlov PM. Stevens P. Strong K. Thompson JA. Thomson PC. The performance of wild-canid traps in Australia - efficiency, selectivity and trap-related injuries. *Wildlife Research*. 25(3):327-338, 1998.

**Flexman JP.** Smith DW. MacKenzie JS. Fraser JRE. Bass P.

**Hueston L. Michael DA.** A comparison of the diseases caused by Ross River virus and Barmah Forest virus [Review]. *Medical Journal of Australia*. 169(3):159-163, 1998.

**Fortin D. Arnold GW.** The influence of road verges on the use of nearby small shrubland remnants by birds in the central wheatbelt of Western Australia. *Wildlife Research*. 24(6):679-689, 1997.

**Francesconi KA. Pedersen KL. Hojrup P.** Sex-specific accumulation of Cd-metallothionein in the abdominal muscle of the coral prawn *Metapenaeopsis crassissima* from a natural population. *Marine Environmental Research*. 46(1-5):541-544, 1998.

**Frankovich TA. Fourqurean JW.** Seagrass epiphyte loads along a nutrient availability gradient, Florida Bay, USA. *Marine Ecology-Progress Series*. 159:37-50, 1997.

**Franzmann PD. Zappia LR. Patterson BM. Rayner JL. Davis GB.** Mineralisation of low concentrations of organic compounds and microbial biomass in surface and vadose zone soils from the Swan Coastal Plain, Western Australia. *Australian Journal of Soil Research*. 36(6):921-939, 1998.

**Frey DG.** Expanded description of *Leberis acnigmatosa* Smirnov (Anomopoda, Chydoridae) - a further indication of the biological isolation between western and eastern Australia. *Hydrobiologia*. 367:31-42, 1998.

**Garkaklis MJ. Bradley JS. Wooller RD.** The effects of woylie (*Bettongia penicillata*) foraging on soil water repellency and water infiltration in heavy textured soils in southwestern Australia. *Australian Journal of Ecology*. 23(5):492-496, 1998.

**Garkaklis MJ. Sims CV. Bradley JS. Wooler RD.** The breeding phenology of wedge-tailed shearwaters *Puffinus pacificus* on Rottnest Island, Western Australia. *Emu*. 98(Part 4):317-319, 1998.

**Gerritse RG. Wallbrink PJ. Murray AS.** Accumulation of phosphorus and heavy metals in the Swan-Canning Estuary, Western Australia. *Estuarine Coastal & Shelf Science*. 47(2):165-179, 1998.

**Gill GS. Holmes JE.** Efficacy of cultural control methods for combating herbicide-resistant *Lolium rigidum*. *Pesticide Science*. 51(3):352-358, 1997.

**Gill HS. Morgan DL.** Larval development of *Nannatherina balstoni* Regan (Nannoperidae), with a description of ontogenetic changes in diet. *Ecology of Freshwater Fish*. 7(3):132-139, 1998.

**Glover EA. Taylor JD.** New species and records of *Rastafaria* and *Megaxinus* (Bivalvia, Lucinidae) from the western Indian Ocean and Red Sea, with a reappraisal of *Megaxinus*. *Journal of Conchology*. 36(Part 1):1-18, 1997.

**Gochfeld DJ. Aeby GS.** Control of populations of the coral-feeding nudibranch *Phestilla sibogae* by fish and crustacean predators. *Marine Biology*. 130(1):63-69, 1997.

**Gosliner TM. Behrens DW.** Five new species of *Chromodoris* (Mollusca: Nudibranchia: Chromodorididae) from the tropical Indo-Pacific Ocean. *Proceedings of the California Academy of Sciences* 50(5): 139-165, 1998.

**Gould SF.** Proteoid root mats bind surface materials in Hawkesbury Sandstone biomantles. *Australian Journal of Soil Research*. 36(6):1019-1031, 1998.

**Gregory PJ.** Alternative crops for duplex soils: growth and water use of some cereal, legume, and oilseed crops, and pastures. *Australian Journal of Agricultural Research* 49(1): 21-32, 1998.

**Grey K. Corkeron M.** Late Neoproterozoic stromatolites in glaciogenic successions of the Kimberley Region, Western Australia - evidence for a younger Marinoan glaciation. *Precambrian Research*. 92(1):65-87, 1998.

**Grocke DR. Bocherens H. Mariotti A.** Annual rainfall and nitrogen-isotope correlation in macropod collagen - application as a palaeoprecipitation indicator. *Earth & Planetary Science Letters*. 153(3-4):279-285, 1997.

**Hall NG.** Delay-difference model to estimate the catch of different categories of the western rock lobster (*Panulirus cygnus*) for the two stages of the annual fishing season. *Marine & Freshwater Research*. 48(8):949-958, 1997.

**Harriott VJ.** Growth of the staghorn coral *Acropora formosa* at Houtman Abrolhos, Western Australia. *Marine Biology*. 132(2):319-325, 1998.

**Hartley BM. Wall B. Munslowdavies L. Toussaint LF. Hirschberg KJ. Terry KW. Shepherd M.** The establishment of a radioactive waste disposal facility in Western Australia for low level waste. *Applied Radiation & Isotopes*. 49(3):259-264, 1998.

**Hass CG. Knott B.** Sphaeromatid isopods from the Swan River, Western Australia: Diversity, distribution, and geographic sources. *Crustaceana* (Leiden). 71(1): 36-46, 1998.

**Hatton CJ.** The superocean cycle. *Transactions of the Geological Society of South Africa*. 100(4):301-310, 1997.

**Hatton T. Reece P. Taylor P. McEwan K.** Does leaf water efficiency vary among eucalypts in water-limited environments. *Tree Physiology* 18(8-9):529-536, 1998.

**Hell RM. Smith RK.** A monsoon depression over northwestern Australia Part 1 - Case study. *Australian Meteorological Magazine*. 47(1):21-40, 1998.

**Hennessy DW. Williamson PJ. McLennan DJ. Farquharson RJ. Morris SG. Darnell RE.** Improved beef production from supplementation of hereford, brahman and crossbred cattle grazing low and medium quality pastures in the subtropics of Australia. *Animal Science*. 66(Part 1):93-104, 1998.

**Higgs ARB. Hawkins CD.** Ovine Johne's-disease - the risk associated with sheep imported into Western Australia. *Australian Veterinary Journal*. 76(8):546-550, 1998.

**Hine PM. Thorne T.** *Haplosporidium* sp. (Haplosporidia) in hatchery-reared pearl oysters, *Pinctada maxima* (Jameson, 1901), in north western Australia. *Journal of Invertebrate Pathology* 71(1): 48-52, 1998.

**Hingston FJ. Galbraith JH. Dimmock GM.** Application of the process-based model biomass to *Eucalyptus globulus* subsp. *globulus* plantations on ex-farmland in south western Australia - I - Water use by trees and assessing risk of losses due to drought. *Forest Ecology & Management*. 106(2-3):141-156, 1998.

**Hingston FJ. Galbraith JH.** Application of the process-based model biomass to *Eucalyptus globulus* ssp. *globulus* plantations on ex-farmland in south western Australia - II - Stemwood production and seasonal growth. *Forest Ecology & Management*. 106(2-3):157-168, 1998.

**Hobbs RJ. Mooney HA.** Broadening the extinction debate - population deletions and additions in California and Western Australia [Review]. *Conservation Biology*. 12(2):271-283, 1998.

**Hodgkin EP. Hesp P.** Estuaries to salt lakes - Holocene transformation of the estuarine ecosystems of south-western Australia. *Marine & Freshwater Research*. 49(3):183-201, 1998.

**Hopcroft RR. Roff JC.** Zooplankton growth rates - the influence of female size and resources on egg production of tropical marine copepods. *Marine Biology*. 132(1):79-86, 1998.

**Horvitz CC. Pascarella JB. McMann S. Freedman A. Hofstetter RH.** Functional roles of invasive non-indigenous plants in hurricane-affected subtropical hardwood forests [Review]. *Ecological Applications*. 8(4):947-974, 1998.

**Hosken DJ.** Reproduction and the female reproductive cycle of *Nyctophilus geoffroyi* and *N. major* (Chiroptera, Vespertilionidae) from south-western Australia. *Australian Journal of Zoology*. 45(5):489-504, 1997.

**Howard K. Colquhoun IJ. Hardy G.** The potential of copper sulphate to control *Phytophthora cinnamomi* during bauxite mining in Western Australia. *Australasian Plant Pathology*. 27(1):51-58, 1998.

**Jernakoff P. Nielsen J.** Plant-animal associations in two species of seagrasses in Western Australia. *Aquatic Botany*. 60(4):359-376, 1998.

**Johnson MS. Black R.** Effects of isolation by distance and geographical discontinuity on genetic subdivision of *Littoraria cingulata*. *Marine Biology*. 132(2):295-303, 1998.

**Johnson MS. Black R.** Increased genetic divergence and reduced genetic variation in populations of the snail *Bembicium vittatum* in isolated tidal ponds. *Heredity*. 80(Part 2):163-172, 1998.

**Johnston CD. Rayner JL. Patterson BM. Davis GB.** Volatilisation and biodegradation during air sparging of dissolved btex-contaminated groundwater. *Journal of Contaminant Hydrology*. 33(3-4):377-404, 1998.

**Jones DA. Beard G.** Verification of Australian monthly district rainfall totals using high resolution gridded analyses. *Australian Meteorological Magazine*. 47(1):41-54, 1998.

**Jones RAC. Nicholas DA.** Impact of an insidious virus disease in the legume component on the species balance within self-regenerating annual pasture. *Journal of Agricultural Science*. 131(Part 2):155-170, 1998.

**Kamiya M. West JA. King RJ. Zuccarello GC. Tanaka J. Hara Y.** Evolutionary divergence in the red algae *Caloglossa leprieurii* and *C. apomeiotica*. *Journal of Phycology* 34(2): 361-370, 1998.

**Kendrick GA. Bearley A.** Influence of *Sargassum* spp. attached to rhodoliths on sampling effort and demographic analyses of *Sargassum* spp. (Sargassaceae, Phaeophyta) attached to a reef. *Botanica Marina*. 40(6):517-521, 1997.

**Kendrick GW. McNamara KJ. Brimmell K.** A guide to the fossils of the Roe Plains. WA Museum, Perth, 1997.

**Kendrick GA. Langtry S. Fitzpatrick J. Griffiths R. Jacoby CA.** Benthic microalgae and nutrient dynamics in wave-disturbed environments in Marmion Lagoon, Western Australia, compared with less disturbed mesocosms. *Journal of Experimental Marine Biology & Ecology*. 228(1):83-105, 1998.

**Kennington WJ. James SH.** Allozyme and morphometric variation in two closely related mallee species from Western Australia, *Eucalyptus argutifolia* and *E. obtusiflora* (Myrtaceae). *Australian Journal of Botany*. 46(2):173-186, 1998.

**Kennington WJ. James SH.** Contrasting patterns of clonality in two closely related mallee species from Western Australia, *Eucalyptus argutifolia* and *E. obtusiflora* (Myrtaceae). *Australian Journal of Botany*. 45(4):679-689, 1997.

**Kerr PJ. Twigg LE. Silvers L. Lowe TJ. Forrester RI.** Serological monitoring of the epidemiology of myxoma virus to assess the effects of imposed fertility control of female rabbits on myxomatosis. *Wildlife Research*. 25(2):123-131, 1998.

**Kirkman H. Kendrick GA.** Ecological significance and commercial harvesting of drifting and beach-cast macroalgae and seagrasses in Australia - a review [Review]. *Journal of Applied Phycology*. 9(4):311-326, 1997.

**Kookana RS. Baskaran S. Naidu R.** Pesticide fate and behaviour in Australian soils in relation to contamination and management of soil and water - A review [Review]. *Australian Journal of Soil Research*. 36(5):715-764, 1998.

**Kurup GR. Hamilton P. Patterson JC.** Modelling the effect of seasonal flow variations on the position of salt wedge in a microtidal estuary. *Estuarine Coastal & Shelf Science*. 47(2):191-208, 1998.

**Kusnadar D. Galwey NW. Hertzler GL. Butcher TB.** Age trends in variances and heritabilities for diameter and height in maritime pine (*Pinus pinaster* Ait.) in Western Australia. *Silvae Genetica*. 47(2-3):136-141, 1998.

**Lamont BB. Groom PK.** Seed and seedling biology of the woody-fruited Proteaceae. *Australian Journal of Botany*. 46(3-4):387-406, 1998.

**Lamont BB. Olesen JM. Briffa PJ.** Seed production, pollinator attractants and breeding system in relation to fire response - are there reproductive syndromes among co-occurring proteaceous shrubs. *Australian Journal of Botany*. 46(3-4):377-385, 1998.

**Lebocque AF.** Richness of species and growth-forms within sclerophyll and mesophyll vegetation in eastern Australia. *Australian Journal of Ecology*. 23(2):168-176, 1998.

**Lee WJ. Patterson DJ.** Diversity and geographic distribution of free-living heterotrophic flagellates - analysis by primer. *Protist*. 149(3):229-244, 1998.

**Lin HJ. Shao KT.** Temporal changes in the abundance and growth of intertidal *Thalassia hemprichii* seagrass beds in southern Taiwan. *Botanical Bulletin of Academia Sinica*. 39(3):191-198, 1998.

**Long JA.** Dinosaurs of Australia and New Zealand and other animals of the Mesozoic Era. University of NSW Press, Sydney, 1998.

**Long JA.** Ptyctodontid fishes from the Late Devonian Gogo Formation, Western Australia, with a revision of the European genus *Ctenurella* Ørvig 1960. *Geodiversitas (Paris)* 19 (3): 515-556, 1997.

**Long JA. Cruichshank ARI** Further records of plesiosaurian reptiles from the Jurassic and Cretaceous Periods of Western Australia. *Records of the Western Australian Museum* 19: 47-55, 1998.

**Long JA. McNamara KJ.** Heterochrony In: *The Dinosaur Encyclopedia* (ed P Currie), Academic Press, New York, 311-317, 1997.

**Long JA. Molnar RE.** A new Jurassic theropod dinosaur from Western Australia. *Records of the Western Australian Museum* 19: 221-229, 1998.

**Long JA. Vickers-Rich P. Hirsch K. Bray E. Tuniz C.** The Cervantes egg: an early Malagasy tourist to Australia *Records of the Western Australian Museum* 19: 39-46, 1998.

**Lorie A. Kenneally KF.** Three new species of trigger plant (Stylium: Styliaceae) from south-west Western Australia. *Nuytsia* 12(1): 75-82, 1998.

**Loss SP. Siddique KHM. Jettner R. Martin LD.** Responses of faba bean (*Vicia faba* L.) to sowing rate in south-western Australia 1 - Seed yield and economic optimum plant density. *Australian Journal of Agricultural Research*. 49(6):989-997, 1998.

**Loss SP. Siddique KHM. Martin LD. Crombie A.** Responses of faba bean (*Vicia faba* L.) to sowing rate in

south-western Australia II - Canopy development, radiation absorption and dry matter partitioning. *Australian Journal of Agricultural Research.* 49(6):999-1008, 1998.

**Lowrie A.** A new species of *Utricularia* (Lentibulariaceae) from the south-west of Western Australia. *Nuytsia* 12(1): 37-41, 1998.

**Lowrie A. Coates DJ. Kenneally KF.** A taxonomic review of the *Stylium caricfolium* complex (Styliidae), from south-west Western Australia. *Nuytsia* 12(1): 43-57, 1998.

**Mable BK. Roberts JD.** Mitochondrial dna evolution of tetraploids in the genus *Neobatrachus* (Anura, Myobatrachidae). *Copeia.* (4):680-689, 1997.

**MacFarlane C. Adams MA.** Delta-C<sup>13</sup> of wood in growth-rings indicates cambial activity of drought-stressed trees of *Eucalyptus globulus*. *Functional Ecology.* 12(4):655-664, 1998.

**Maguire TL. Sedgley M.** Interspecific and intergeneric pistil-pollen compatibility of *Banksia coccinea* (Proteaceae). *Australian Journal of Botany.* 46(3-4):453-463, 1998.

**Majer JD. Nichols OG.** Long-term recolonization patterns of ants in Western Australian rehabilitated bauxite mines with reference to their use as indicators of restoration success. *Journal of Applied Ecology* 35(1): 161-182, 1998.

**Malik R. Love DN. Wigley DL. Martin P.** Mycobacterial nodular granulomas affecting the subcutis and skin of dogs (canine leproid granuloma syndrome). *Australian Veterinary Journal.* 76(6):403-407, 1998.

**Maly EJ. Halse SA. Maly MP.** Distribution and incidence patterns of *Boeckella*, *Calamoecia*, and *Hemiboekella* (Copepoda, Calanoida) in Western Australia. *Marine & Freshwater Research.* 48(7):615-621, 1997.

**Maly EJ. Maly MP.** Predation, competition, and co-occurrences of *Boeckella* and *Calamoecia* (Copepoda, Calanoida) in Western Australia. *Hydrobiologia.* 354:41-50, 1997.

**Mamet B.** A late Devonian microfossil with dasyclad algae affinities from northwestern Australia. *Alcheringa.* 22(1-2):21-28, 1998.

**Marsh H. Harris ANM. Lawler IR.** The sustainability of the indigenous dugong fishery in Torres Strait, Australia Papua New Guinea. *Conservation Biology.* 11(6):1375-1386, 1997.

**Marshall JK. Morgan AL. Akilan K. Farrell RCC. Bell DT.** Water uptake by two river red gum (*Eucalyptus camaldulensis*) clones in a discharge site plantation in the Western Australian wheatbelt. *Journal of Hydrology.* 200(1-4):136-148, 1997.

**Mason MG. Brennan RF.** Comparison of growth response and nitrogen uptake by canola and wheat following application of nitrogen fertilizer. *Journal of Plant Nutrition.* 21(7):1483-1499, 1998.

**Masselink G. Hegge BJ. Pattiaratchi CB.** Beach cusp morphodynamics. *Earth Surface Processes & Landforms.* 22(12):1139 ff., 1997.

**McCarthy M A.** Identifying declining and threatened species with museum data. *Biological Conservation* 83(1): 9-17, 1998.

**McComb AJ. Qiu S. Lukatelich RJ. McAuliffe TF.** Spatial and temporal heterogeneity of sediment phosphorus in the Peel-Harvey Estuarine system. *Estuarine Coastal & Shelf Science.* 47(5):561-577, 1998.

**McGlathery KJ. Krausejensen D. Rysgaard S. Christensen PB.** Patterns of ammonium uptake within dense mats of the filamentous macroalga *Chaetomorpha linum*. *Aquatic Botany.* 59(1-2):99-115, 1997.

**McGowran B. Li QY. Cann J. Padley D. McKirdy DM. Shafik S.** Biogeographic impact of the Leeuwin Current in southern Australia since the late middle Eocene [Review]. *Palaeogeography Palaeoclimatology Palaeoecology.* 136(1-4):19-40, 1997.

**McKissock I. Gilkes RJ. Harper RJ. Carter DJ.** Relationships of water repellency to soil properties for different spatial scales of study. *Australian Journal of Soil Research.* 36(3):495-507, 1998.

**McMahon K. Walker D I.** Fate of seasonal, terrestrial nutrient inputs to a shallow seagrass dominated embayment. *Estuarine Coastal & Shelf Science* 46(1): 15-25, 1998.

**McNamara KJ.** Shapes of Time: the Evolution of Growth and Development. Johns Hopkins University Press, Baltimore & London, 1997.

**McNamara KJ. Long JA.** The Evolution Revolution. John Wiley & Sons, Chichester & New York, 1998.

**McNamara KJ.** Evolution's Missing Link. Australasian Science incorporating Search 19(1): 30-32, 1998.

**McNamara KJ.** First records of holasteroid, neolampadoid and aeropsid echinoids from Australian waters. In: *Echinoderms* (eds R Mooi & M Telford), Balkema, Rotterdam, 734, 1998.

**McWilliam PS. Phillips BF.** Metamorphosis of the final phyllosoma and secondary lecithotrophy in the puerulus of *Panulirus cygnus* George - a review. *Marine & Freshwater Research.* 48(8):783-790, 1997.

**Melvillesmith R. Chubb CF.** Comparison of dorsal and ventral tag retention in western rock lobsters, *Panulirus cygnus* (George). *Marine & Freshwater Research.* 48(7):577-580, 1997.

**Menendez M. Sanchez A.** Seasonal variations in P-I responses of *Chara hispida* L. and *Potamogeton pectinatus* L. from stream mediterranean ponds. *Aquatic Botany.* 61(1):1-15, 1998.

**Meney KA. Dixon KW. Pate JS.** Reproductive potential of obligate seeder and resprouter herbaceous perennial monocots (Restionaceae, Anarthriaceae, Ecdeiocoleaceae) from south-western Western Australia. *Australian Journal of Botany.* 45(5):771-782, 1997.

**Milberg P. Lamont BB.** Seed/cotyledon size and nutrient content play a major role in early performance of species on nutrient-poor soils. *New Phytologist.* 137(4):665-672, 1997.

**Morris J. Mann L. Collypy J.** Transpiration and canopy conductance in a eucalypt plantation using shallow saline groundwater. *Tree Physiology.* 18(8-9):547-555, 1998.

**Morrow R. Birol F.** Variability in the southeast Indian Ocean from altimetry - forcing mechanisms for the Leeuwin Current. *Journal of Geophysical Research-Oceans.* 103(C9):18529-18544, 1998.

**Mound LA. Crespi BJ. Tucker A.** Polymorphism and kleptoparasitism in thrips (Thysanoptera, Phlaeothripidae) from woody galls on casuarina trees. *Australian Journal of Entomology.* 37(Part 1):8-16, 1998.

**Mundy BC. Moser HG.** Development of early stages of pelagic armorhead *Pseudopentaceros wheeleri* with notes on juvenile *Ps. richardsoni* and larval *Histiopterus typus* (Pisces, Percoidae, Pentacerotidae). *Bulletin of Marine Science.* 61(2):241-269, 1997.

**Murphy DV. Fillery IRP. Sparling GP.** Seasonal fluctuations in gross N mineralisation, ammonium consumption, and microbial biomass in a Western Australian soil under different land uses. *Australian Journal of Agricultural Research* 49(3):523-535, 1998.

**Murphy DV. Sparling GP. Fillery IRP.** Stratification of microbial biomass C and N and gross N mineralisation with soil depth in two contrasting Western Australian agricultural soils. *Australian Journal of Soil Research* 36(1):45-55, 1998.

**Murphy DV. Sparling GP. Fillery IRP. McNeill AM. Braunberger P.** Mineralisation of soil organic nitrogen and microbial respiration after simulated summer rainfall events in an agricultural soil. *Australian Journal of Soil Research* 36(2):231-246, 1998.

**Murtugudde R. Busalacchi AJ. Beauchamp J.** Seasonal-to-interannual effects of the Indonesian throughflow on the tropical Indo-Pacific Basin. *Journal of Geophysical Research-Oceans*. 103(C10):21425-21441, 1998.

**Mwanamwenge J. Loss SP. Siddique KHM. Cocks PS.** Growth, seed yield and water use of faba bean (*Vicia faba* L.) in a short-season mediterranean-type environment. *Australian Journal of Experimental Agriculture* 38(2):171-180, 1998.

**Newman LJ. Cannon LRG.** Nine new species of *Pseudobiceros* (Platyhelminthes, Polycladida) from the Indo-Pacific. *Raffles Bulletin of Zoology*. 45(2):341-368, 1997.

**Oddie RLA. McComb JA.** Stigma receptivity in *Eucalyptus camaldulensis* Dehnh. *Silvae Genetica*. 47(2-3):142-146, 1998.

**Parsons KE.** The role of dispersal ability in the phenotypic differentiation and plasticity of two marine gastropods: II. Growth. *Journal of Experimental Marine Biology & Ecology* 221(1):1-25, 1998.

**Pasqualini V. Pergentmartini C. Clabaut P. Pergent G.** Mapping of *Posidonia oceanica* using aerial photographs and side scan sonar - application off the island of Corsica (France). *Estuarine Coastal & Shelf Science*. 47(3):359-367, 1998.

**Pate JS. Jeschke WD. Dawson TE. Raphael C. Hartung W. Bowen BJ.** Growth and seasonal utilisation of water and nutrients by *Banksia* prionotes. *Australian Journal of Botany*. 46(3-4):511-532, 1998.

**Pattiaratchi C. Hegge B. Gould J. Eliot I.** Impact of sea-breeze activity on nearshore and foreshore processes in southwestern Australia. *Continental Shelf Research*. 17(13):1539-1560, 1997.

**Pergent G. Ricoraimondino V. Pergentmartini C.** Fate of primary production in *Posidonia oceanica* meadows of the Mediterranean. *Aquatic Botany*. 59(3-4):307-321, 1997.

**Petty SR. Poppi DP. Triglione T.** Effect of maize supplementation, seasonal temperature and humidity on the liveweight gain of steers grazing irrigated *Leucaena leucocephala/Digitaria eriantha* pastures in north-west Australia. *Journal of Agricultural Science* 130(1): 95-105, 1998.

**Phillips JA. Huisman JM.** *Dictyopteris serrata* (Dictyotales, Phaeophyceae): A little known algal species newly recorded from Australia. *Botanica Marina* 41(1):43-49, 1998.

**Pickett EJ. Newsome JC.** *Eucalyptus* (Myrtaceae) pollen and its potential role in investigations of holocene environments in south western Australia. *Review of Palaeobotany & Palynology*. 98(3-4):187-205, 1997.

**Pinder AM. Brinkhurst RO.** The family Capilloventridae (Annelida, Clitellata) in Australia with descriptions of two new species of *Capilloventer*. *Zoologica Scripta*. 26(3):255-265, 1997.

**Platell M E. Potter I C. Clarke K R.** Do the habitats, mouth morphology and diets of the mullids *Upeneichthys stotti* and *U. lineatus* in coastal waters of south-western Australia differ? *Journal of Fish Biology* 52(2):398-418, 1998.

**Platell ME. Potter IC. Clarke KR.** Resource partitioning by four species of elasmobranchs (Batoidea, Urolophidae) in coastal waters of temperate Australia. *Marine Biology*. 131(4):719-734, 1998.

**Platell ME. Potter IC.** Distributions, size compositions and diets of two abundant benthic ambush-feeding teleosts in coastal waters of south-western Australia. *Journal of the Marine Biological Association of the United Kingdom*. 78(2):587-608, 1998.

**Plummer JA. Wann JM. Orifici R. Spadek ZE.** Effects of photon flux density on photosynthesis, growth, flowering, and oil content in *Boronia*. *Australian Journal of Agricultural Research*. 49(5):791-797, 1998.

**Pole M.** The Proteaceae record in New Zealand. *Australian Systematic Botany*. 11(3-4):343-372, 1998.

**Poore GCB. Humphreys WF.** First record of *Spelaeogriphacea* from Australasia - a new genus and species from an aquifer in the arid Pilbara of Western Australia. *Crustaceana*. 71(Part 7):721-742, 1998.

**Pouliquenyong O.** Evolution of the system of protected areas in Western Australia. *Environmental Conservation*. 24(2):168-181, 1997.

**Pozo J. Basaguren A. Elosegui A. Molinero J. Fabre E. Chauvet E.** Afforestation with *Eucalyptus globulus* and leaf litter decomposition in streams of northern Spain. *Hydrobiologia*. 374:101-109, 1998.

**Preen A.** Marine protected areas and dugong conservation along Australias Indian Ocean coast. *Environmental Management*. 22(2):173-181, 1998.

**Price IR. Huisman JM. Borowitzka MA.** Two new species of *Caulerpa* (Caulerpales, Chlorophyta) from the west coast of Australia. *Phycologia* 37(1):10-15, 1998.

**Prinzinger R. Schleucher E.** A well developed single cecum in the common bronzewing (*Phaps chalcoptera*) and the spinifex pigeon (*Geophaps plumifera*) [German]. *Journal fur Ornithologie*. 139(3):351-352, 1998.

**Prinzinger R. Schleucher E.** Fruits of tall saltbush *Rhagodia eremaea* as an important source of energy and water for arid zone honeyeaters. *Emu*. 98(Part 3):236-240, 1998.

**Radomiljac AM.** The influence of pot host species, seedling age and supplementary nursery nutrition on *Santalum album* Linn (Indian sandalwood) plantation establishment within the Ord River irrigation area, Western Australia. *Forest Ecology & Management*. 102(2-3):193-201, 1998.

**Raidal SR. Cross GM. Tomaszewski E. Graham DL. Phalen DN.** A serologic survey for avian polyomavirus and pachecos-disease virus in Australian cockatoos. *Avian Pathology*. 27(3):263-268, 1998.

**Raidal SR. OHara M. Hobbs RP. Prince RIT.** Gram-negative bacterial infections and cardiovascular parasitism in green sea turtles (*Chelonia mydas*). *Australian Veterinary Journal*. 76(6):415-417, 1998.

**Raidal SR.** Salmonellosis in two canary (*Serinus canaria*) flocks. *Australian Veterinary Practitioner*. 28(2):58 ff., 1998

**Ralph PJ. Gademann R. Dennison WC.** *In situ* seagrass photosynthesis measured using a submersible, pulse-amplitude modulated fluorometer. *Marine Biology*. 132(3):367-373, 1998.

**Read JL.** Are geckos useful bioindicators of air pollution. *Oecologia*. 114(2):180-187, 1998.

**Recher HF.** Impact of wildfire on the avifauna of Kings Park, Perth, Western Australia. *Wildlife Research*. 24(6):745-761, 1997.

**Revell C K. Taylor G B. Cocks P S.** Long-term softening of surface and buried hard seeds of yellow serratella grown in a range of environments. *Australian Journal of Agricultural Research* 49(4):673-685, 1998.

**Richards J D. Short J.** Wedge-tailed eagle *Aquila audax* predation on endangered mammals and rabbits, Shark Bay, Western Australia. *Emu* 98(1). 1998. 23-31.

**Ridgway KR. Godfrey JS.** Seasonal cycle of the east Australian current. *Journal of Geophysical Research-Oceans*. 102(C10):22921-22936, 1997.

**Rieger MA. Sedgley M.** Preliminary investigation of genetic variation within and between cultivated and natural populations of *Banksia coccinea* and *Banksia menziesii*. *Australian Journal of Botany*. 46(3-4):547-558, 1998.

**Riley I T. Reardon T B. Bertozzi T.** Allozyme analysis of Australian isolates of *Dilophospora alopecuri*. *Mycological Research* 102(3):301-307, 1998.

**Robinson J. Jalli M.** Grain yield, net blotch and scald of barley in Finnish official variety trials. *Agricultural & Food Science in Finland*. 6(5-6):399-408, 1997.

**Robinson JS. Sivapalan M.** Temporal scales and hydrological regimes - implications for flood frequency scaling. *Water Resources Research*. 33(12):2981-2999, 1997.

**Roche S. Dixon KW. Pate JS.** For everything a season: Smoke-induced seed germination and seedling recruitment in a Western Australian *Banksia* woodland. *Australian Journal of Ecology* 23(2):111-120, 1998.

**Roche S. Dixon KW. Pate JS.** Seed ageing and smoke - partner cues in the amelioration of seed dormancy in selected Australian native species. *Australian Journal of Botany*. 45(5):783-815, 1997.

**Rojasarechiga M. Vazquezyan C. Orozcosegovia A.** Seed response to temperature of Mexican cacti species from two life forms - an ecophysiological interpretation. *Plant Ecology*. 135(2):207-214, 1998.

**Rye R. Holland HD.** Paleosols and the evolution of atmospheric oxygen - a critical review [Review]. *American Journal of Science*. 298(8):621-672, 1998.

**Sale PWG. Brown A. MacLaren G. Derbyshire PK. Veitch SM.** Pasture environments in Australia where reactive phosphate rock will be an effective phosphate fertiliser. *Australian Journal of Experimental Agriculture*. 37(8):1051-1060, 1997.

**Samadi A. Gilkes RJ.** Forms of phosphorus in virgin and fertilised calcareous soils of Western Australia. *Australian Journal of Soil Research*. 36(4):585-601, 1998.

**Schieber J.** Possible indicators of microbial mat deposits in shales and sandstones - examples from the mid-Proterozoic belt supergroup, Montana, USA. *Sedimentary Geology*. 120(1-4):105-124, 1998.

**Schulze DJ. Walker KF.** Riparian eucalypts and willows and their significance for aquatic invertebrates in the River Murray, South Australia. *Regulated Rivers-Research & Management*. 13(6):557-577, 1997.

**Scott JK. Shivas RG.** Impact of insects and fungi on doublegee (*Emex australis*) in the Western Australian wheatbelt. *Australian Journal of Agricultural Research*. 49(5):767-773, 1998.

**Scott JK. Yeoh PB.** Host range of *Brachycaudus ruminicolens* (Patch), an aphid associated with the Polygonaceae. *Biological Control*. 13(3):135-142, 1998.

**Sewell SR. Catterall CP.** Bushland modification and styles of urban development - their effects on birds in south-east Queensland. *Wildlife Research*. 25(1):41-63, 1998.

**Sharpe DJ. Goldingay RL.** Feeding behaviour of the squirrel glider at Bungawalbin Nature Reserve, north-eastern New South Wales. *Wildlife Research*. 25(3):243-254, 1998.

**Shattuck SO. McMillan P.** Revision of the species of the *Iridomyrmex conifer* group (Hymenoptera : Formicidae), with notes on their biology. *Australian Journal of Zoology*. 46(3):301-315, 1998.

**Shearer BL. Crane CE. Fairman RG. Grant MJ.** Occurrence of *Armillaria luteobubalina* and pathogen-mediated changes in coastal dune vegetation of south-western Australia. *Australian Journal of Botany*. 45(5):905-917, 1997.

**Shearer BL. Crane CE. Fairman RG. Grant MJ.** Susceptibility of plant species in coastal dune vegetation of southwestern Australia to killing by *Armillaria luteobubalina*. *Australian Journal of Botany*. 46(2):321-334, 1998.

**Sheehy M. Caputi N. Chubb C. Belchier M.** Use of lipofuscin for resolving cohorts of western rock lobster (*Panulirus cygnus*). *Canadian Journal of Fisheries & Aquatic Sciences*. 55(4):925-936, 1998.

**Shivas RG. Bathgate J. Podger FD.** *Colletotrichum xanthorrhoeae* sp. nov. on *Xanthorrhoea* in Western Australia. *Mycological Research* 102(3):280-282, 1998.

**Short J. Turner B. Risbey DA. Carnamah R.** Control of feral cats for nature conservation - II - Population reduction by poisoning. *Wildlife Research*. 24(6):703-714, 1997.

**Siddique KHM. Loss SP. Pritchard DL. Regan KL. Tennant D. Jettner RL. Wilkinson D.** Adaptation of lentil (*Lens culinaris* Medik.) to Mediterranean-type environments: Effect of time of sowing on growth, yield, and water use. *Australian Journal of Agricultural Research* 49(4):613-626, 1998.

**Siddique KHM. Loss SP. Regan KL. Pritchard DL.** Adaptation of lentil (*Lens culinaris* Medik.) to short season mediterranean-type environments - Response to sowing rates. *Australian Journal of Agricultural Research*. 49(7):1057-1066, 1998.

**Sim M. Forbes A. McNeil J. Roberts G.** Termite control and other determinants of high body burdens of cyclodiene insecticides. *Archives of Environmental Health*. 53(2):114-121, 1998.

**Singh RJ. Kollipara KP. Hymowitz T.** The genomes of *Glycine canescens* Herm, FJ, and *g-Tomentella hayata* of Western Australia and their phylogenetic relationships in the genus *Glycine* Willd. *Genome*. 41(5):669-679, 1998.

**Singh Z. Jones MGK. Jones RAC.** Effectiveness of coat protein and defective replicase gene-mediated resistance against Australian isolates of cucumber mosaic virus. *Australian Journal of Experimental Agriculture*. 38(4):375-383, 1998.

**Slattery WJ. Edwards DG. Bell LC. Coventry DR. Helyar KR.** Soil acidification and the carbon cycle in a cropping soil of north-eastern Victoria. *Australian Journal of Soil Research*. 36(2):273-290, 1998.

**Smales LR.** New species of *Seurechina* (Nematoda : Seuratidae) parasitic in dasyurid marsupials from Australia. *Transactions of the Royal Society of South Australia*. 122(Part 3-4):179-184, 1998.

**Smith FP. Cocks PS. Ewing MA.** Seed production in cluster clover (*Trifolium glomeratum* L.) 2 - Effect of sowing time and sowing rate on flowering time, abortion, seed size, and hardseededness. *Australian Journal of Agricultural Research*. 49(6):965-971, 1998.

**Smith WK. Bell DT. Shepherd KA.** Associations between leaf structure, orientation, and sunlight exposure in five

Western Australian communities. American Journal of Botany 85(1):56-63, 1998.

**Stephens DJ.** Lyons TJ. Rainfall-yield relationships across the Australian wheatbelt. Australian Journal of Agricultural Research 49(2):211-223, 1998.

**Stephens DJ.** Lyons TJ. Variability and trends in sowing dates across the Australian wheatbelt. Australian Journal of Agricultural Research. 49(7):1111-1118, 1998.

**Stephenson MH.** Preliminary correlation of palynological assemblages from Oman with the *Granulatisporites confluens* Oppel zone of the Grant Formation (Lower Permian), Canning Basin, Western Australia. Journal of African Earth Sciences. 26(4):521-526, 1998.

**Stirling CH.** Esat TM. Lambeck K. McCulloch MT. Timing and duration of the last interglacial - evidence for a restricted interval of widespread coral reef growth. Earth & Planetary Science Letters. 160(3-4):745-762, 1998.

**Stuwe K.** Tectonic constraints on the timing relationships of metamorphism, fluid production and gold-bearing quartz vein emplacement. Ore Geology Reviews. 13(1-5):219-228, 1998.

**Summers R.** Clarke M. Pope T. Odea T. Western Australian fly ash on sandy soils for clover production. Communications in Soil Science & Plant Analysis. 29(17-18):2757-2767, 1998.

**Suppiah R.** Hennessy KJ. Trends in total rainfall, heavy rain events and number of dry days in Australia, 1910-1990. International Journal of Climatology. 18(10):1141-1164, 1998.

**Tang C.** Robson AD. Correlation between soil pH of collection site and the tolerance of wild genotypes of *Lupinus angustifolius* L. to neutral pH. Australian Journal of Experimental Agriculture. 38(4):355-362, 1998.

**Taniguchi M.** Williamson DR. Peck AJ. Estimations of surface temperature and subsurface heat flux following forest removal in the south-west of Western Australia. Hydrological Processes. 12(13-14):2205-2216, 1998.

**Thomas DS.** Turner DW. Leaf age and environmental effects on gas exchange in leaves of bananas (cv. Williams) growing in a hot, arid environment. The Journal of Horticultural Science & Biotechnology. 73(6):774-780, 1998.

**Thompson RB.** Fillery IRP. Fate of urea nitrogen in sheep urine applied to soil at different times of the year in the pasture-wheat rotation in south Western Australia. Australian Journal of Agricultural Research 49(3):495-510, 1998.

**Thomson CJ.** Ewing MA. Turner NC. Revell CK. Le Coultre IF. Influence of rotation and time of germinating rains on the productivity and composition of annual pastures in Western Australia. Australian Journal of Agricultural Research 49(2):225-232, 1998.

**Trayler KM.** Davis JA. Forestry impacts and the vertical distribution of stream invertebrates in south-western Australia. Freshwater Biology. 40(2):331-342, 1998.

**Twigg LE.** Lowe TJ. Martin GR. Wheeler AG. Gray GS. Griffin SL. O'Reilly CM. Butler TL. Robinson DJ. Hubach PH. The ecology of the European rabbit (*Oryctolagus cuniculus*) in coastal southern Western Australia. Wildlife Research. 25(2):97-111, 1998.

**Walker DL.** Kendrick GA. Threats to macroalgal diversity - marine habitat destruction and fragmentation, pollution and introduced species. Botanica Marina. 41(1):105-112, 1998.

**Walker J.** Shivas RG. Two species of *Sporisorium* on *Chionachne* in tropical Australia, the first Australian record of *Ustilago brunkii* and its transfer to *Jamesdicksonia*. Mycological Research. 102(Part 10):1203-1214, 1998.

**Wallace A.** Lancaster RA. Hill NL. Application of non-selective herbicides during flowering of pasture legumes can reduce seed yield and alter seed characteristics. Australian Journal of Experimental Agriculture. 38(6):583-594, 1998.

**Wallace CC.** Wolstenholme J. Revision of the coral genus *Acropora* (Scleractinia, Astrocoeniina, Acroporidae) in Indonesia. Zoological Journal of the Linnean Society. 123(3):199-384, 1998.

**Ward RD.** Elliott NG. Grewe PM. Last PR. Lowry PS. Innes BH. Yearsley GK. Allozyme and mitochondrial dna variation in three species of oreos (Teleostei, Oreosomatidae) from Australasian waters. New Zealand Journal of Marine & Freshwater Research. 32(2):233-245, 1998.

**Watson IW.** Westoby M. Holm AM. Continuous and episodic components of demographic change in arid zone shrubs - models of two *Eremophila* species from Western Australia compared with published data on other species. Journal of Ecology. 85(6):833-846, 1997.

**Watson IW.** Westoby M. Holm AM. Demography of two shrub species from an arid grazed ecosystem in Western Australia 1983-93. Journal of Ecology. 85(6):815-832, 1997.

**Weaver DM.** Reed AEG. Patterns of nutrient status and fertiliser practice on soils of the south coast of Western Australia. Agriculture Ecosystems & Environment 67(1):37-53, 1998.

**White J.** Envenoming and antivenom use in Australia. Toxicon. 36(11):1483-1492, 1998.

**Williams ST.** Benzie JAH. Evidence of a biogeographic break between populations of a high dispersal starfish: Congruent regions within the Indo-West Pacific defined by color morphs, mtDNA, and allozyme data. Evolution 52(1):87-99, 1998.

**Wilson PG.** New names and new taxa in the genus *Boronia* (Rutaceae) from Western Australia, with notes on seed characters. Nuytsia 12(1):119-154, 1998.

**Withers P.** Pedler S. Guppy M. Physiological adjustments during aestivation by the Australian land snail *Rhagada tescorum* (Mollusca, Pulmonata, Camaenidae). Australian Journal of Zoology. 45(6):599-611, 1997.

**Won MZ.** The proposed new radiolarian subfamily Retentactiniinae (Entactiniidae) from the Late Devonian (Frasnian) Gogo Formation, Australia. Micropaleontology. 43(4):371-418, 1997.

**Won MZ.** Review of family Entactiniidae (Radiolaria), and taxonomy and morphology of Entactiniidae in the Late Devonian (Frasnian) Gogo Formation, Australia. Micropaleontology. 43(4):333-369, 1997.

**Wooller RD.** Richardson KC. Garavanta CAM. Saffer VM. Anthony C. Wooller SJ. The influence of annual rainfall upon capture rates of a nectar-dependent marsupial. Wildlife Research. 25(2):165-169, 1998.

**Wooller SJ.** Wooller RD. Overwintering by clamorous reed-warblers *Acrocephalus stentoreus* in Perth, Western Australia. Emu. 97(Part 4):332-334, 1997.

**Wright IJ.** Ladiges PY. Geographic variation in *Eucalyptus diversifolia* (Myrtaceae) and the recognition of new subspecies *E. diversifolia* subsp. *hesperia* and *E. diversifolia* subsp. *megacarpa*. Australian Systematic Botany. 10(5):651-680, 1997.

**Yates CJ.** Hobbs RJ. Temperate eucalypt woodlands - a review of their status, processes threatening their

persistence and techniques for restoration [Review]. *Australian Journal of Botany*. 45(6):949-973, 1997.

**Zheng HB. Wyrwoll KH. Li ZX. Powell CM.** Onset of aridity in southern Western Australia - a preliminary palaeomagnetic appraisal. *Global & Planetary Change*. 18(3-4):175-187, 1998.

## Physical Sciences

**Aggangan NS. Dell B. Malajczuk N.** Effects of chromium and nickel on growth of the ectomycorrhizal fungus *Pisolithus* and formation of ectomycorrhizas on *Eucalyptus urophylla* Blake, S.T. *Geoderma*. 84(1-3):15-27, 1998.

**Anderson GC. Fillery IRP. Dolling PJ. Asseng S.** Nitrogen and water flows under pasture-wheat and lupin-wheat rotations in deep sands in Western Australia: 1. Nitrogen fixation in legumes, net N mineralisation, and utilisation of soil-derived nitrogen. *Australian Journal of Agricultural Research* 49(3):329-343, 1998.

**Anderson GC. Fillery IRP. Dunin FX. Dolling PJ. Asseng S.** Nitrogen and water flows under pasture-wheat and lupin-wheat rotations in deep sands in Western Australia: 2. Drainage and nitrate leaching. *Australian Journal of Agricultural Research* 49(3):345-361, 1998.

**Arnold GW. Weeldenberg JW. Leone J.** Herbicide control of exotic annual plant species in *Acacia acuminata-Eucalyptus loxophleba* woodland in south-western Australia and effects on native ground flora. *Plant Protection Quarterly* 13(1):39-43, 1998.

**Arnold TN. Oldham CE.** Trace-element contamination of a shallow wetland in Western Australia. *Marine & Freshwater Research*. 48(6):531-539, 1997.

**Beaumont V. Robert F.** Nitrogen isotopic composition of organic matter from Precambrian cherts - new keys for nitrogen cycle evolution [French]. *Bulletin de la Societe Geologique de France*. 169(2):211-220, 1998.

**Beltran J. Gerritse RG. Hernandez F.** Effect of flow rate on the adsorption and desorption of glyphosate, simazine and atrazine in columns of sandy soils. *European Journal of Soil Science*. 49(1):149-156, 1998.

**Benker E. Davis GB. Barry DA.** Estimating the retardation coefficient of trichloroethene for a sand aquifer low in sediment organic carbon: A comparison of methods. *Journal of Contaminant Hydrology* 30(1-2):157-178, 1998.

**Bidwell JR. Wheeler KW. Burridge TR.** Toxicant effects on the zoospore stage of the marine macroalga *Ecklonia radiata* (Phaeophyta, Laminariales). *Marine Ecology-Progress Series*. 163:259-265, 1998.

**Bolland MDA. Allen DG.** Spatial variation of soil test phosphorus and potassium, oxalate-extractable iron and aluminum, phosphorus-retention index, and organic carbon content in soils of Western Australia. *Communications in Soil Science & Plant Analysis* 29(3-4):381-392, 1998.

**Bolland MDA. Gilkes RJ.** The relative effectiveness of superphosphate and rock phosphate for soils where vertical and lateral leaching of phosphate occurs. *Nutrient Cycling in Agroecosystems*. 51(2):139-153, 1998.

**Bolland MDA. Lewis DC. Gilkes RJ. Hamilton LJ.** Review of Australian phosphate rock research. *Australian Journal of Experimental Agriculture*. 37(8):845-859, 1997.

**Brennan RF. Crowhurst AM. Webb MG.** The growth of yellow bells (*Geleznowia verrucosa*) seedlings in response to additions of nitrogen, potassium and phosphorus fertiliser. *Australian Journal of Experimental Agriculture*. 38(4):385-390, 1998.

**Burke CM. Knott B.** Homeostatic interactions between the benthic microbial communities and the waters of a hypersaline lake, Lake Hayward, Western Australia. *Marine & Freshwater Research*. 48(7):623-631, 1997.

**Di HJ. Aylmore LAG. Kookana RS.** Degradation rates of eight pesticides in surface and subsurface soils under laboratory and field conditions. *Soil Science*. 163(5):404-411, 1998.

**Dunn JG. Kagi RI. Phillips DN.** Developing professional skills in a third-year undergraduate chemistry course offered in Western Australia. *Journal of Chemical Education*. 75(10):1313-1316, 1998.

**Elu P. Mikucki EJ.** Alteration and primary geochemical dispersion associated with the Bulletin lode-gold deposit, Wiluna, Western Australia. *Journal of Geochemical Exploration*. 63(2):73-103, 1998.

**Francesconi KA. Pedersen KL. Hojrup P.** Sex-specific accumulation of Cd-metallothionein in the abdominal muscle of the coral prawn *Metapenaeopsis crassissima* from a natural population. *Marine Environmental Research*. 46(1-5):541-544, 1998.

**Franzmann PD. Zappia LR. Patterson BM. Rayner JL. Davis GB.** Mineralisation of low concentrations of organic compounds and microbial biomass in surface and vadose zone soils from the Swan Coastal Plain, Western Australia. *Australian Journal of Soil Research*. 36(6):921-939, 1998.

**Gerritse RG. Wallbrink PJ. Murray AS.** Accumulation of phosphorus and heavy metals in the Swan-Canning Estuary, Western Australia. *Estuarine Coastal & Shelf Science*. 47(2):165-179, 1998.

**Gorain BK. Napiermann TJ. Franzidis JP. Manlapig EV.** Studies on impeller type, impeller speed and air flow rate in an industrial scale flotation cell - Part 5 - Validation of K-S-B relationship and effect of froth depth. *Minerals Engineering*. 11(7):615-626, 1998.

**Hagemann SG. Brown PE. Ridley J. Stern P. Fournelle J.** Ore petrology, chemistry, and timing of electrum in the Archean hypozonal Transvaal lode gold deposit, Western Australia. *Economic Geology & the Bulletin of the Society of Economic Geologists*. 93(3):271-291, 1998.

**Hartley BM. Wall B. Munslowdavies L. Toussaint LF. Hirschberg KJ. Terry KW. Shepherd M.** The establishment of a radioactive waste disposal facility in Western Australia for low level waste. *Applied Radiation & Isotopes*. 49(3):259-264, 1998.

**Howard K. Colquhoun IJ. Hardy G.** The potential of copper sulphate to control *Phytophthora cinnamomi* during bauxite mining in Western Australia. *Australasian Plant Pathology*. 27(1):51-58, 1998.

**Hutchinson DE. Toussaint LF.** Near-surface disposal of concentrated norm wastes. *Applied Radiation & Isotopes*. 49(3):265-271, 1998.

**Kookana RS. Baskaran S. Naidu R.** Pesticide fate and behaviour in Australian soils in relation to contamination and management of soil and water - A review [Review]. *Australian Journal of Soil Research*. 36(5):715-764, 1998.

**MacFarlane C. Adams MA.** Delta-C<sup>13</sup> of wood in growth-rings indicates cambial activity of drought-stressed trees of *Eucalyptus globulus*. *Functional Ecology*. 12(4):655-664, 1998.

**Mann AW. Birrell RD. Mann AT. Humphreys DB. Perdix JL.** Application of the mobile metal ion technique to routine geochemical exploration. *Journal of Geochemical Exploration*. 61(1-3):87-102, 1998.

Mann AW. Oxidised gold deposits - relationships between oxidation and relative position of the water-table. Australian Journal of Earth Sciences. 45(1):97-108, 1998.

McComb AJ, Qiu S, Lukatelich RJ, Mcauliffe TF. Spatial and temporal heterogeneity of sediment phosphorus in the Peel-Harvey Estuarine system. Estuarine Coastal & Shelf Science. 47(5):561-577, 1998.

McGlathery KJ, Krausejensen D, Rysgaard S, Christensen PB. Patterns of ammonium uptake within dense mats of the filamentous macroalga *Chaetomorpha linum*. Aquatic Botany. 59(1-2):99-115, 1997.

McMahon K, Walker DI. Fate of seasonal, terrestrial nutrient inputs to a shallow seagrass dominated embayment. Estuarine Coastal & Shelf Science 46(1):15-25, 1998.

Murphy DV, Fillery IRP, Sparling GP. Seasonal fluctuations in gross N mineralisation, ammonium consumption, and microbial biomass in a Western Australian soil under different land uses. Australian Journal of Agricultural Research 49(3):523-535, 1998.

Murphy DV, Sparling GP, Fillery IRP. Stratification of microbial biomass C and N and gross N mineralisation with soil depth in two contrasting Western Australian agricultural soils. Australian Journal of Soil Research 36(1):45-55, 1998.

Murphy DV, Sparling GP, Fillery IRP, McNeill AM, Braunberger P. Mineralisation of soil organic nitrogen and microbial respiration after simulated summer rainfall events in an agricultural soil. Australian Journal of Soil Research 36(2):231-246, 1998.

Nguyen QD, Boger DV. Application of rheology to solving tailings disposal problems. International Journal of Mineral Processing. 54(3-4):217-233, 1998.

Rye R, Holland HD. Paleosols and the evolution of atmospheric oxygen - a critical review [Review]. American Journal of Science. 298(8):621-672, 1998.

Sale PWG, Brown A, MacLaren G, Derbyshire PK, Veitch SM. Pasture environments in Australia where reactive phosphate rock will be an effective phosphate fertiliser. Australian Journal of Experimental Agriculture. 37(8):1051-1060, 1997.

Samadi A, Gilkes RJ. Forms of phosphorus in virgin and fertilised calcareous soils of Western Australia. Australian Journal of Soil Research. 36(4):585-601, 1998.

Sheehy M, Caputi N, Chubb C, Belchier M. Use of lipofuscin for resolving cohorts of western rock lobster (*Panulirus cygnus*). Canadian Journal of Fisheries & Aquatic Sciences. 55(4):925-936, 1998.

Sim M, Forbes A, McNeil J, Roberts G. Termite control and other determinants of high body burdens of cyclodiene insecticides. Archives of Environmental Health. 53(2):114-121, 1998.

Slattery WJ, Edwards DG, Bell LC, Coventry DR, Helyar KR. Soil acidification and the carbon cycle in a cropping soil of north-eastern Victoria. Australian Journal of Soil Research. 36(2):273-290, 1998.

Suppiah R, Hennessy KJ. Trends in total rainfall, heavy rain events and number of dry days in Australia, 1910-1990. International Journal of Climatology. 18(10):1141-1164, 1998.

Tang C, Robson AD. Correlation between soil pH of collection site and the tolerance of wild genotypes of *Lupinus angustifolius* L. to neutral pH. Australian Journal of Experimental Agriculture. 38(4):355-362, 1998.

*Note from the Hon Editor:*

This column helps to link the various disciplines and inform others of the broad spectrum of achievements of WA scientists (or others writing about WA). Contributions to "Recent Advances in Science in Western Australia" are welcome, and may include papers that have caught your attention or that you believe may interest other scientists in Western Australia and abroad. They are usually papers in refereed journals, or books, chapters and reviews. Abstracts from conference proceedings will not be accepted.

Please submit either a reprint of the paper, or a short (2-3 sentences) summary of a recent paper together with a copy of the authors' names and addresses, to the Hon Editor or a member of the Publications Committee:

- Dr P C Withers (Hon Editor), Department of Zoology, University of Western Australia, Nedlands WA 6907
- Dr S D Hopper (Life Sciences), Kings Park and Botanic Garden, West Perth WA 6004
- Dr A E Cockbain (Earth Sciences), PO Box 8114, Angelo Street, South Perth WA 6151
- Assoc Prof G Hefter (Physical Sciences), Mathematical and Physical Sciences, Murdoch University, Murdoch WA 6150

Final choice of articles is at the discretion of the Honorary Editor.

"Letters to the Editor" concerning scientific issues of relevance to this journal are also published, at the discretion of the Hon Editor. Please submit a word processing disk with letters, and suggest potential reviewers or respondents to your letter.

P C Withers,

Honorary Editor,

*Journal of the Royal Society of Western Australia.*

% Western Australian Museum,

Francis Street,

Perth WA 6000